

FIG.1

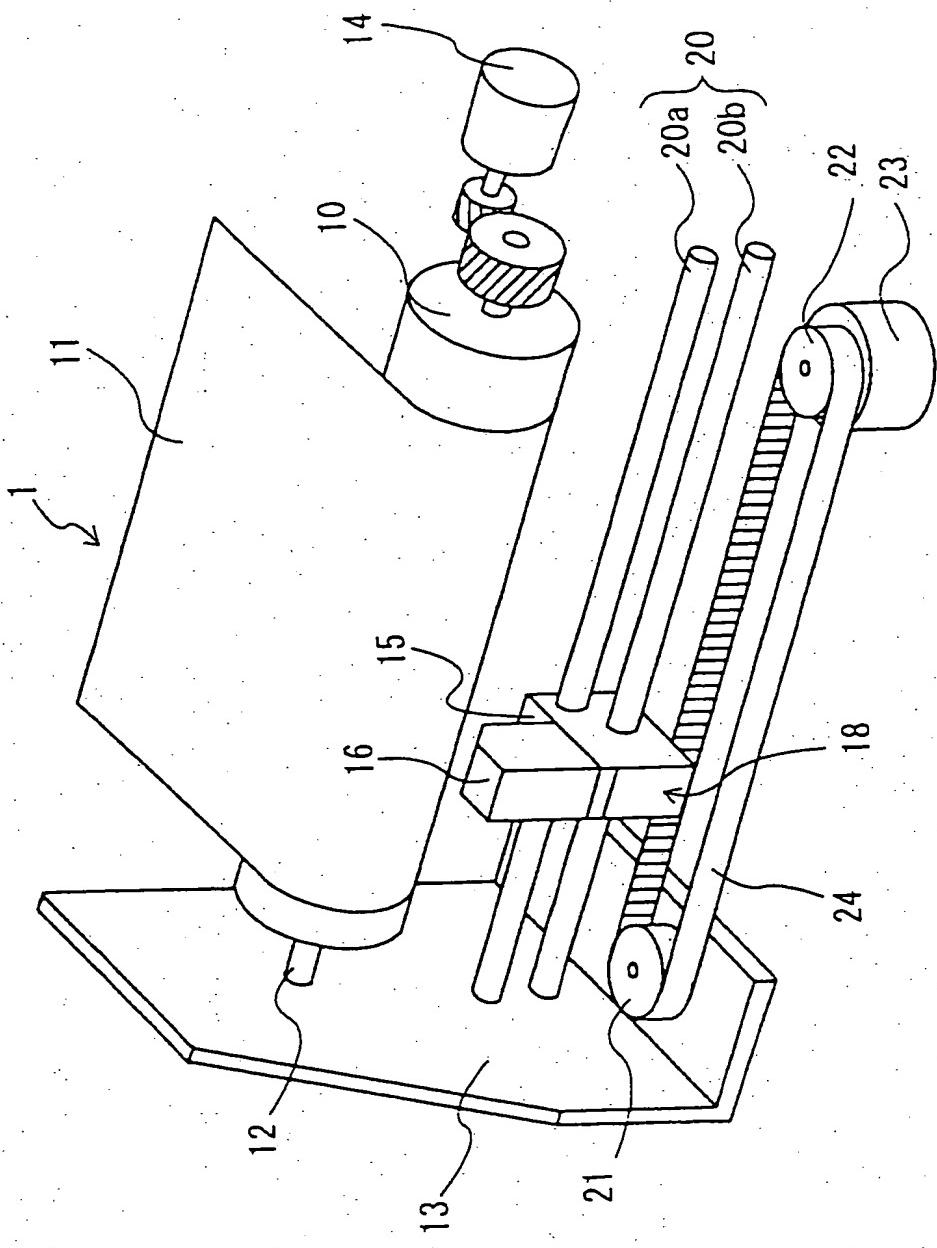


FIG.2

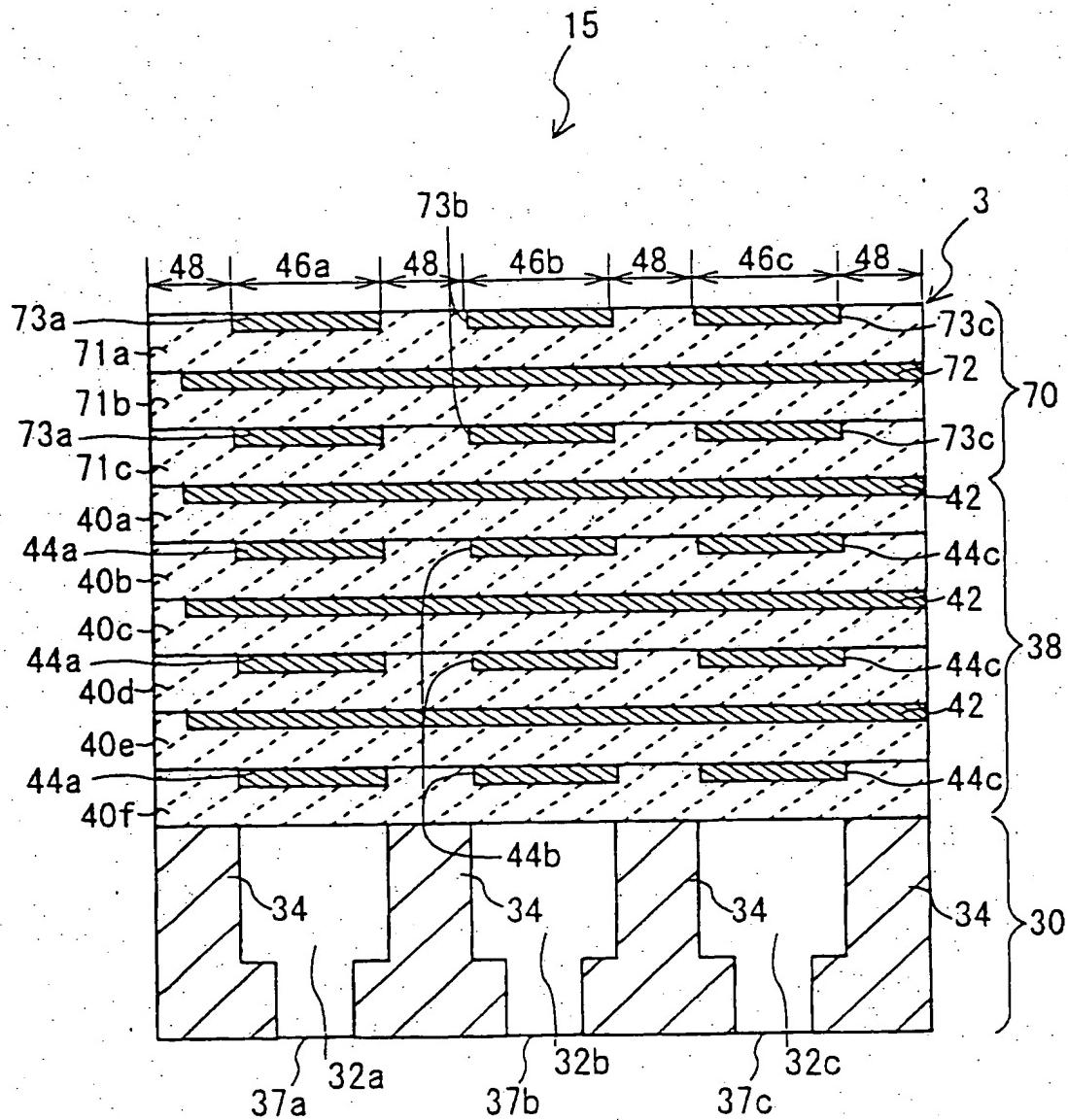


FIG.3

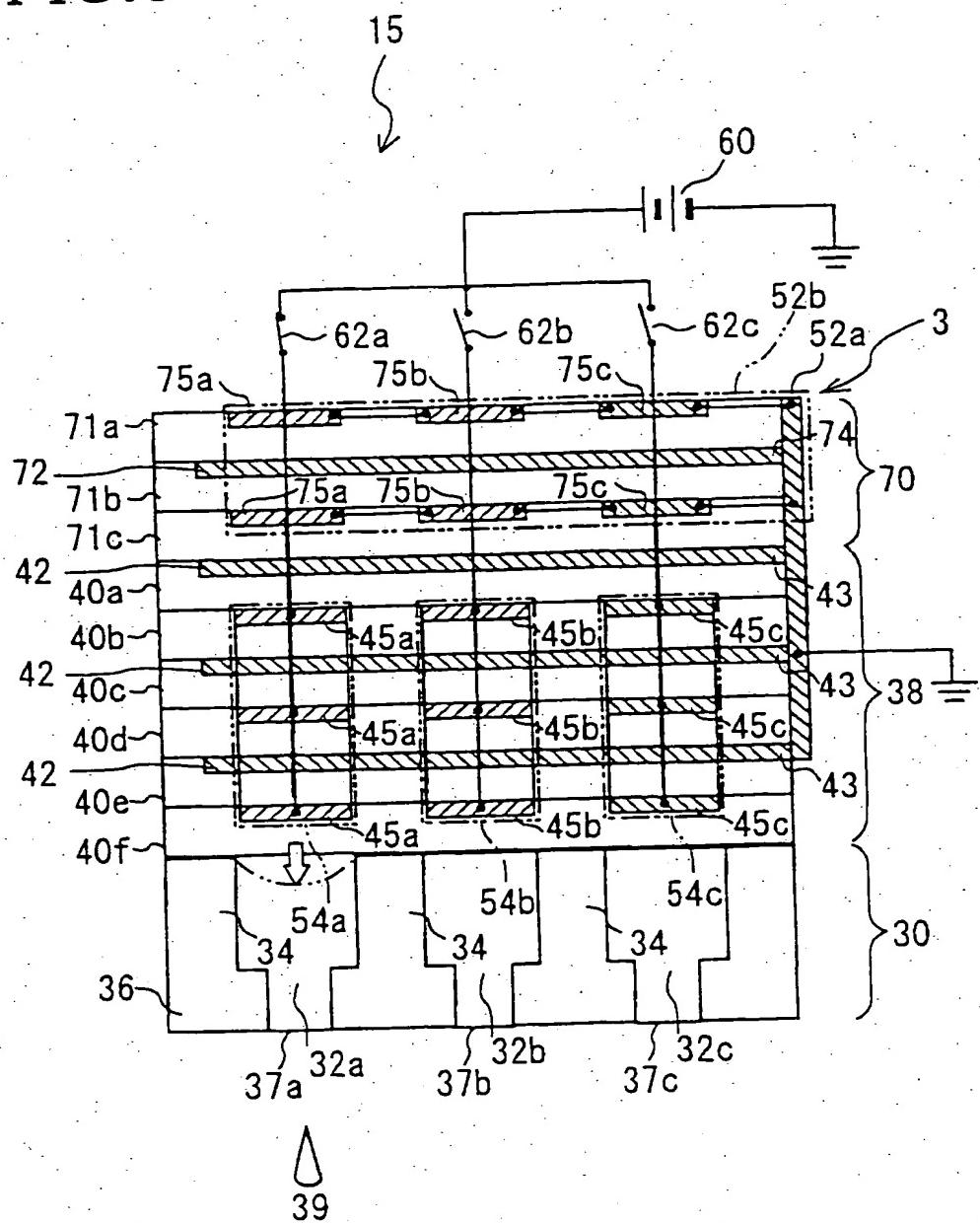
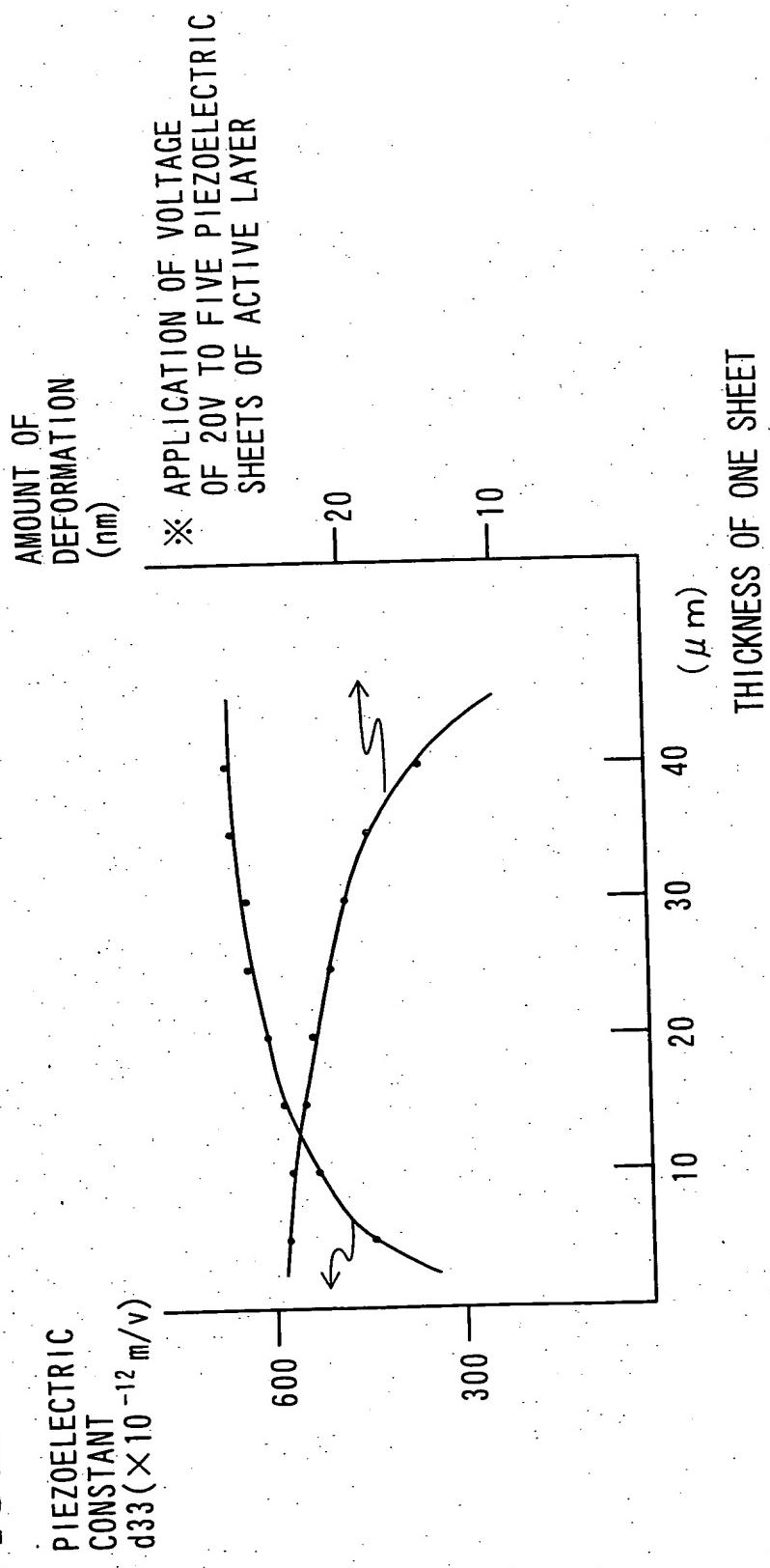


FIG.4



THICKNESS OF ONE PIEZOELECTRIC SHEET AND CHARACTERISTICS

FIG.5

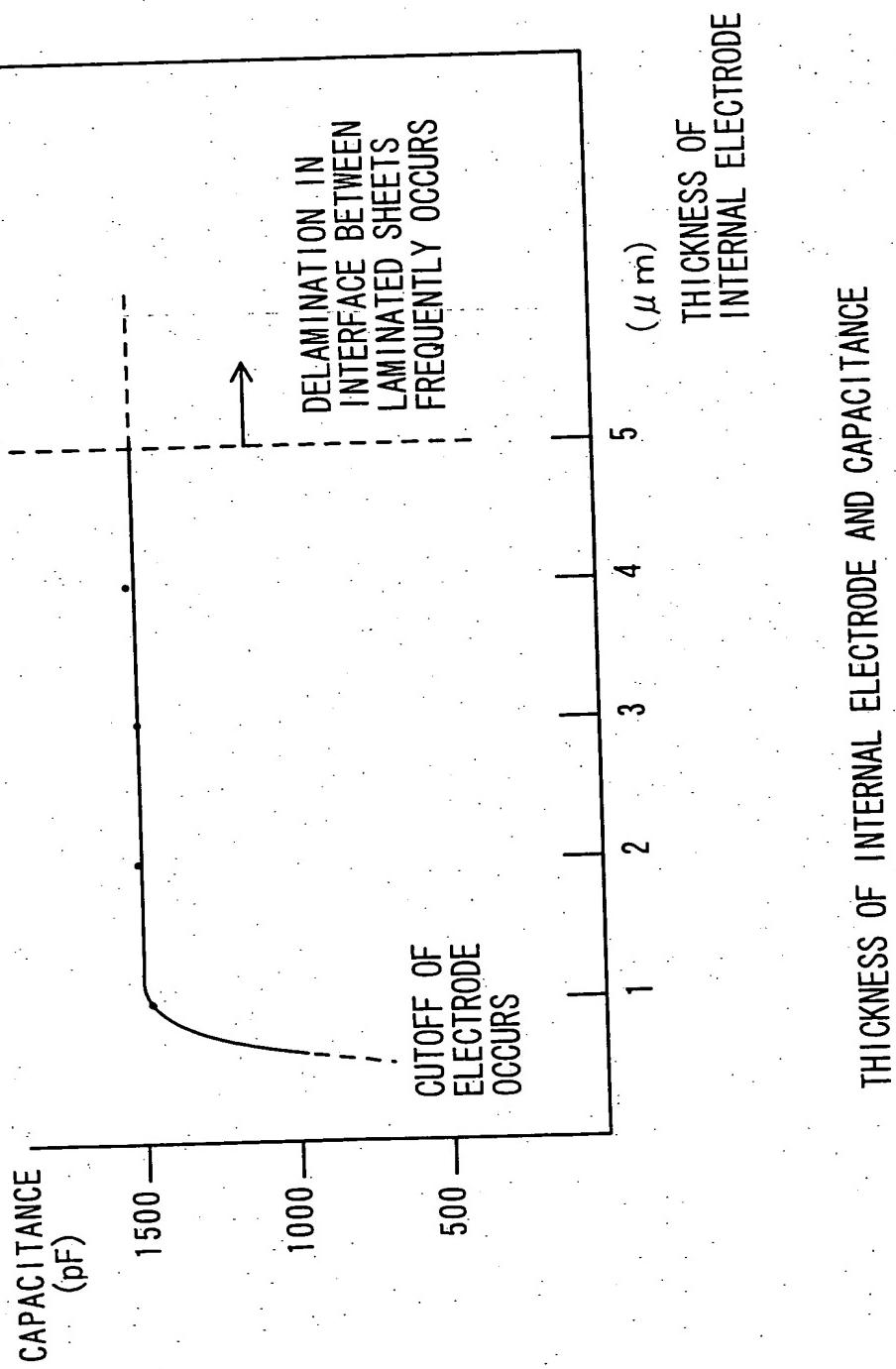


FIG.6

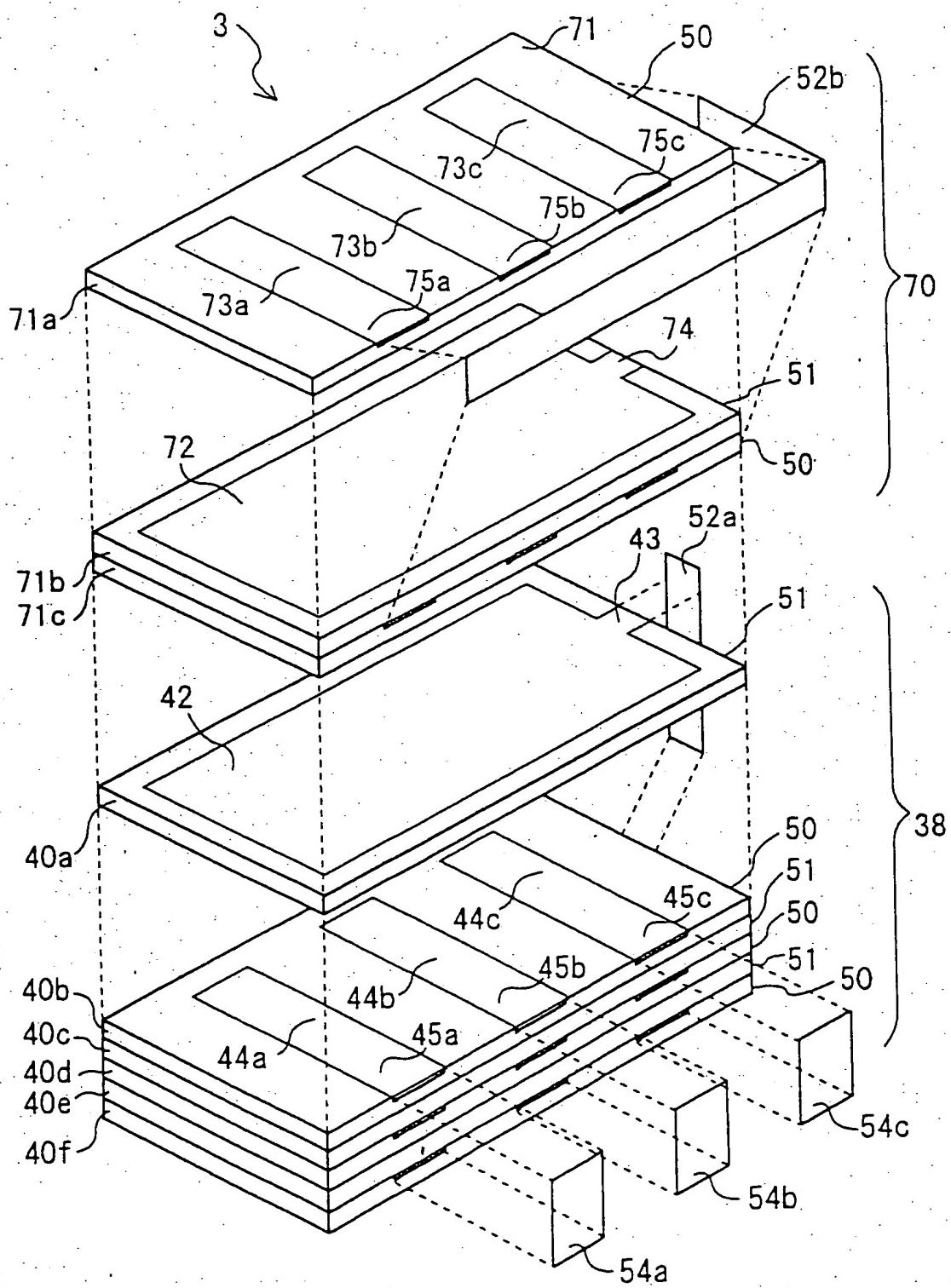


FIG.7

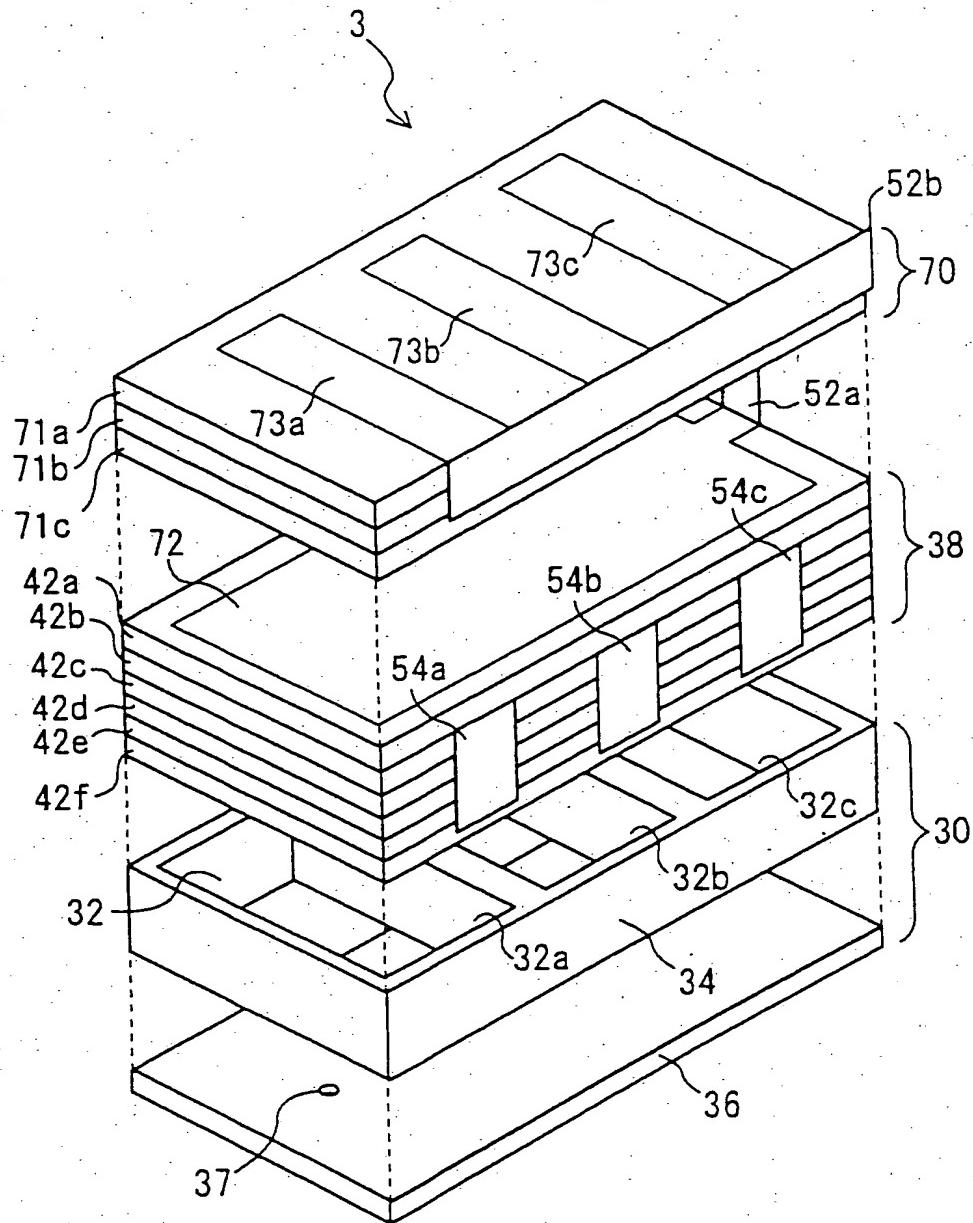


FIG.8

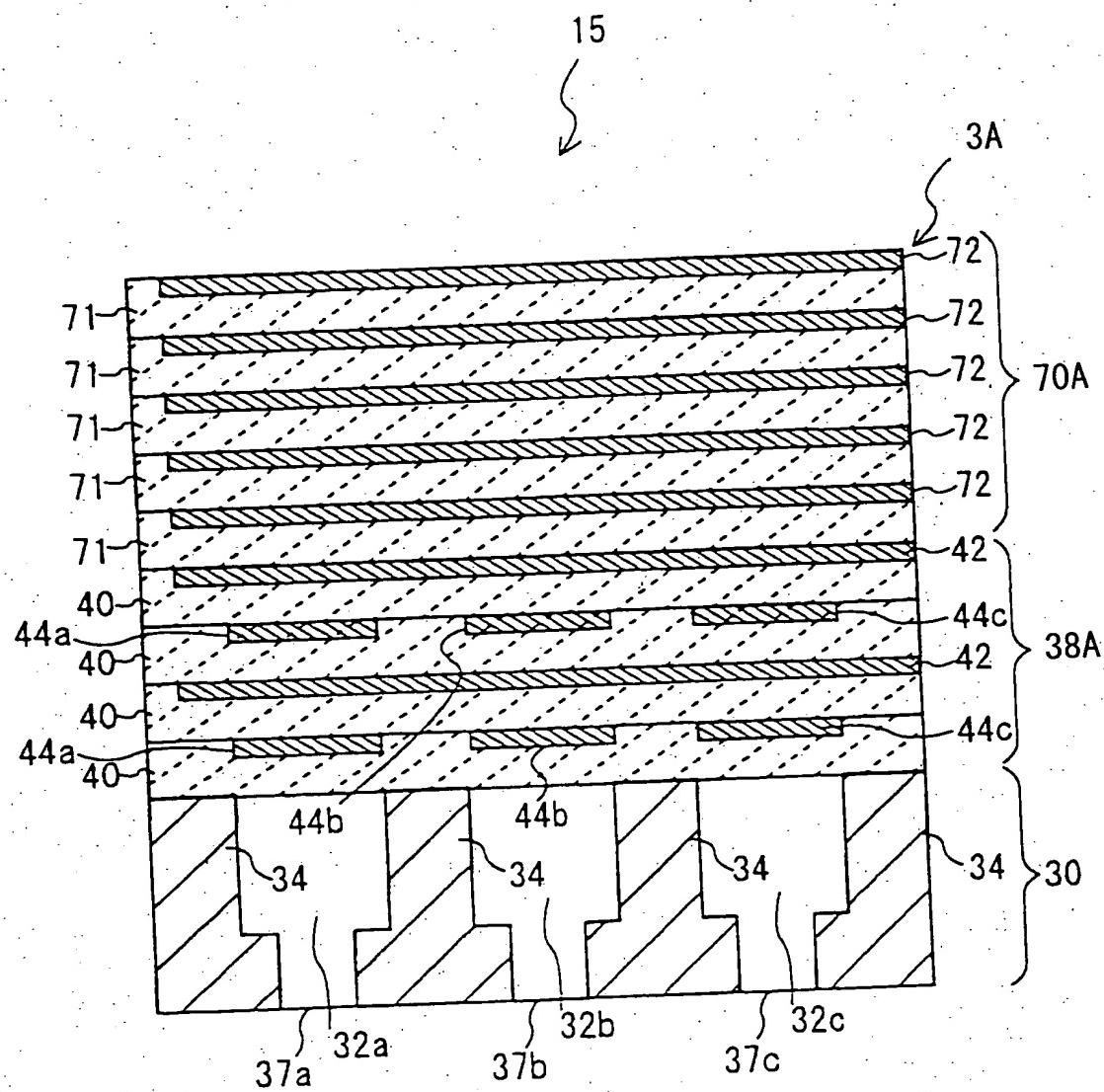


FIG.9

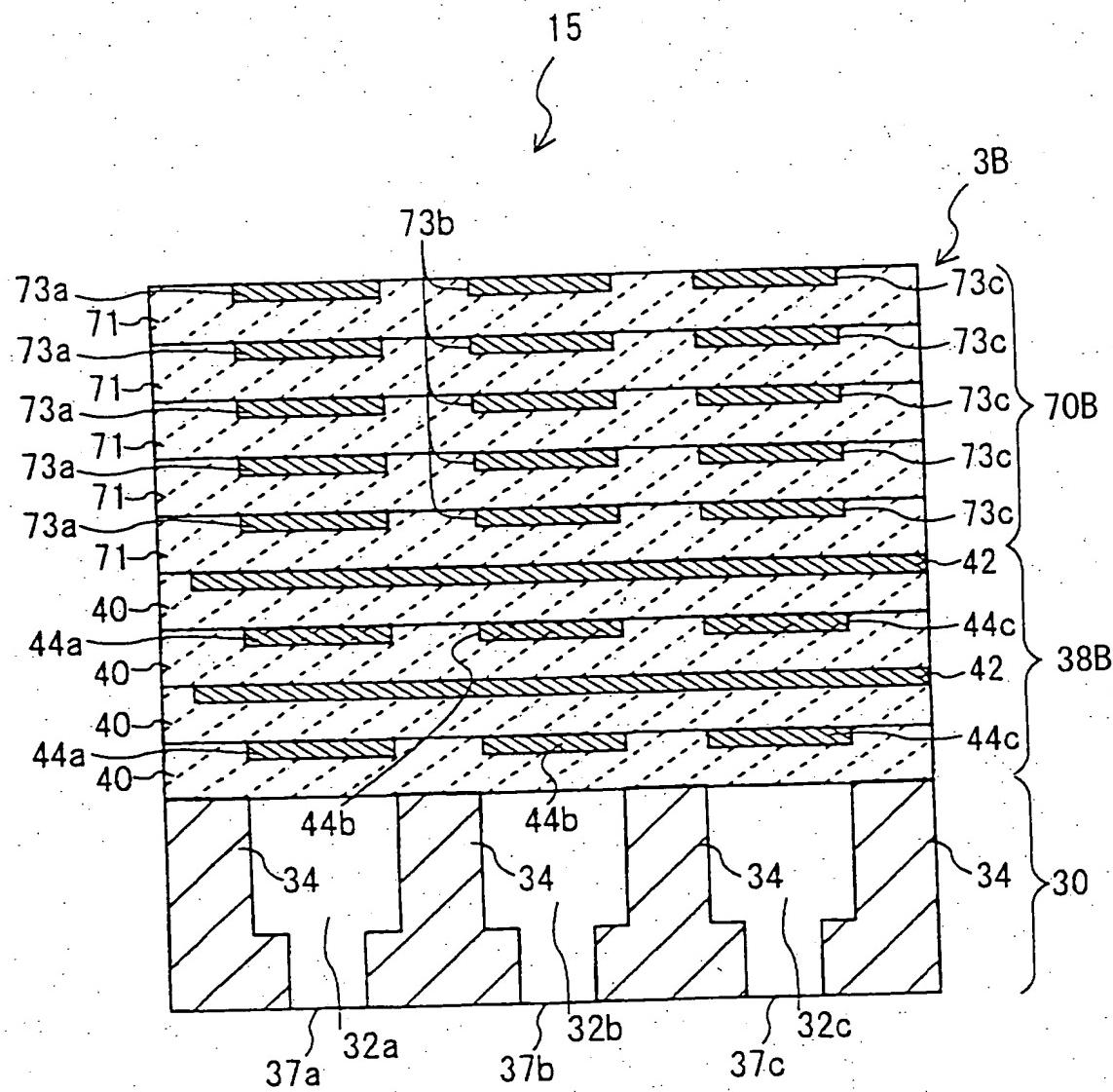


FIG.10

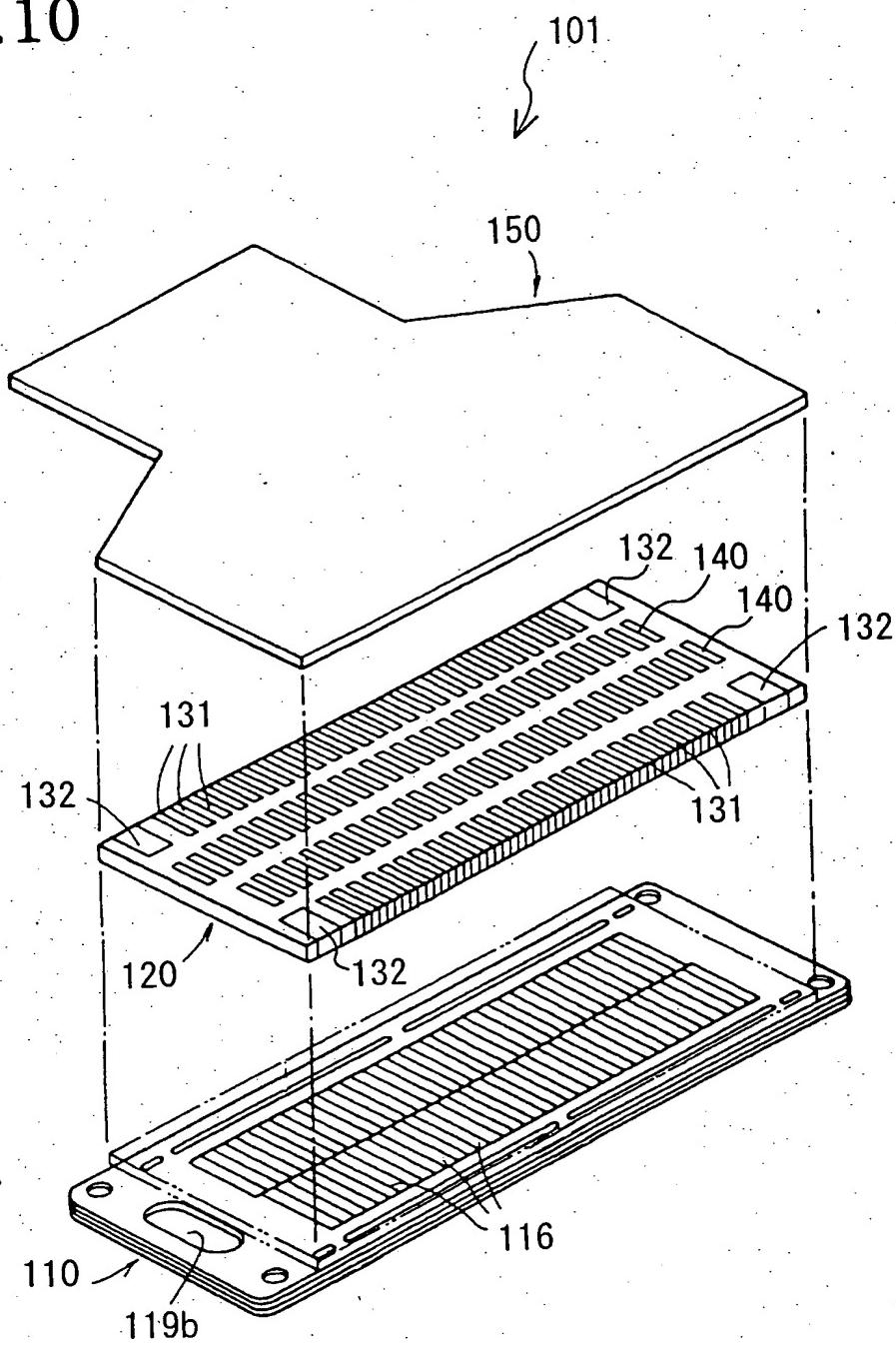


FIG.11

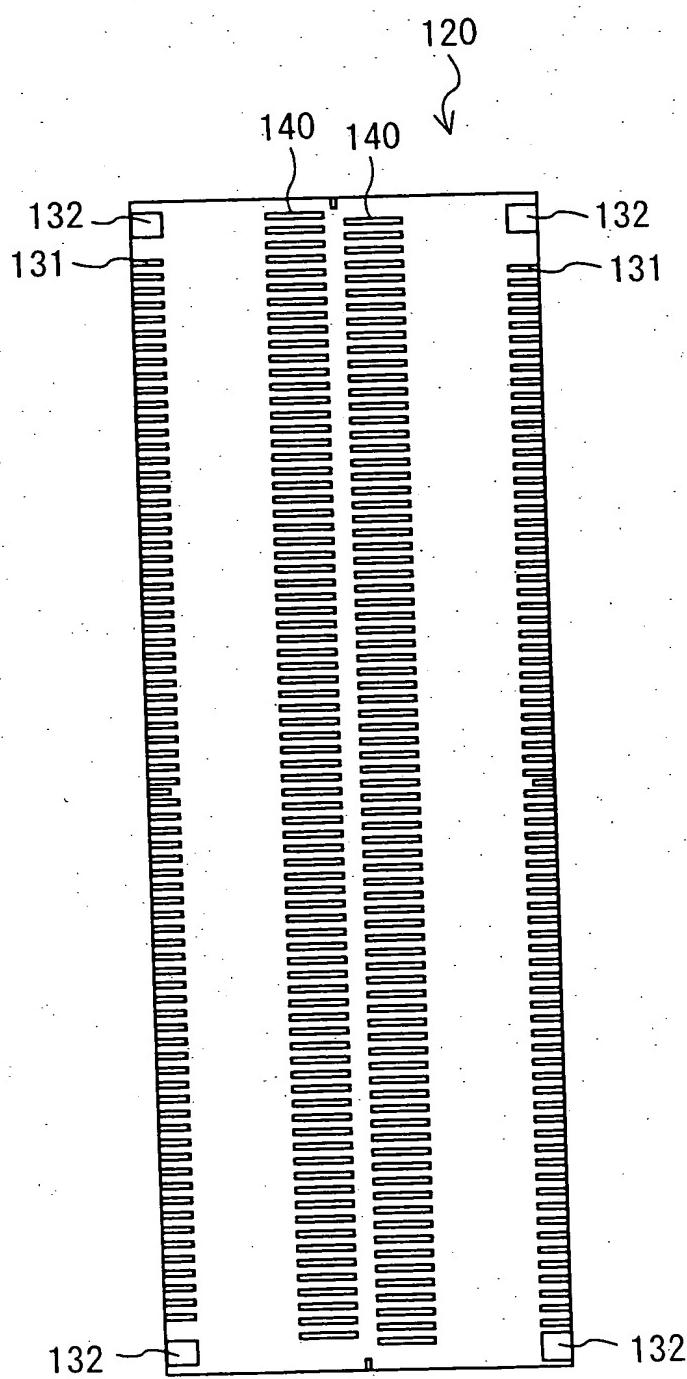


FIG.12

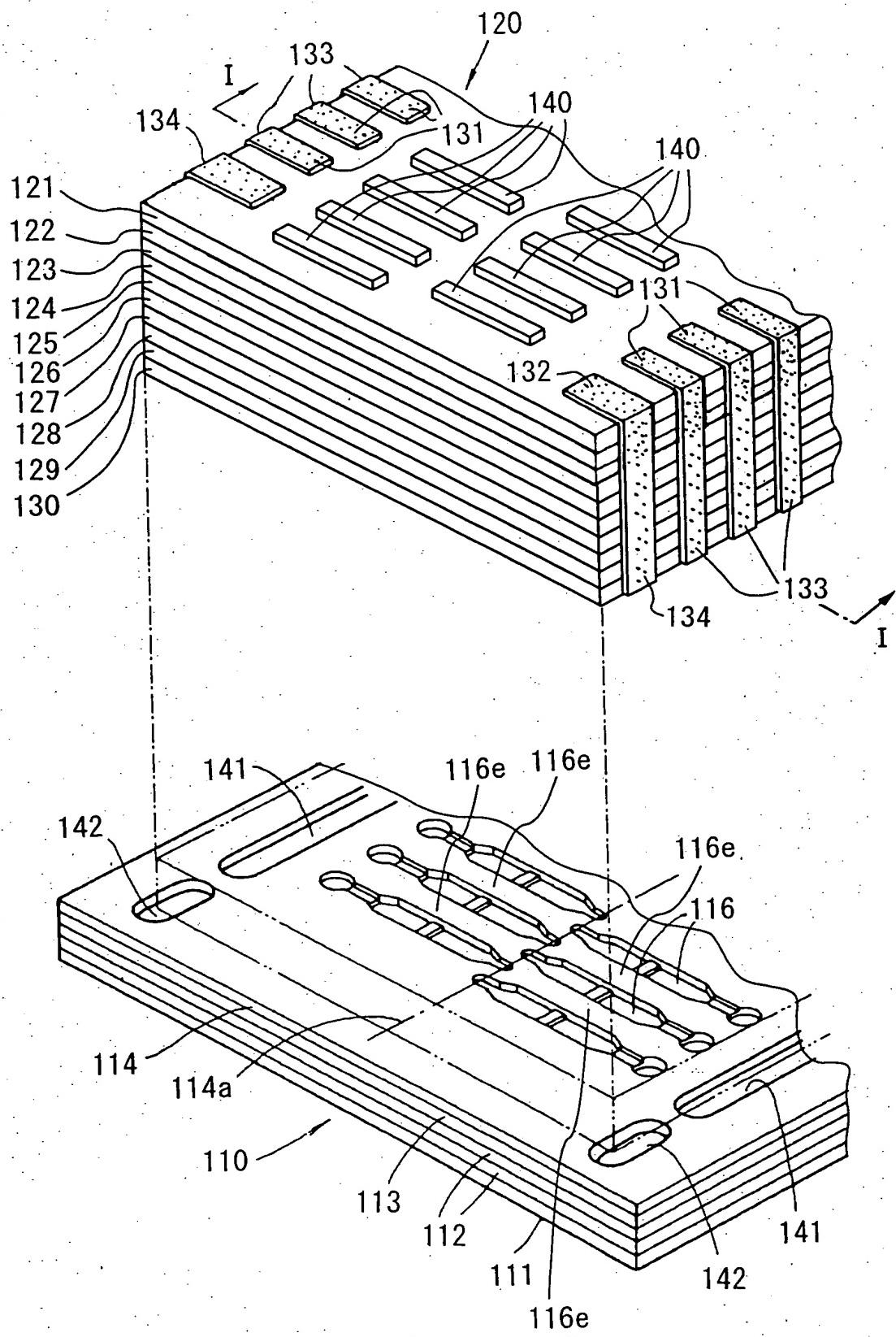


FIG.13

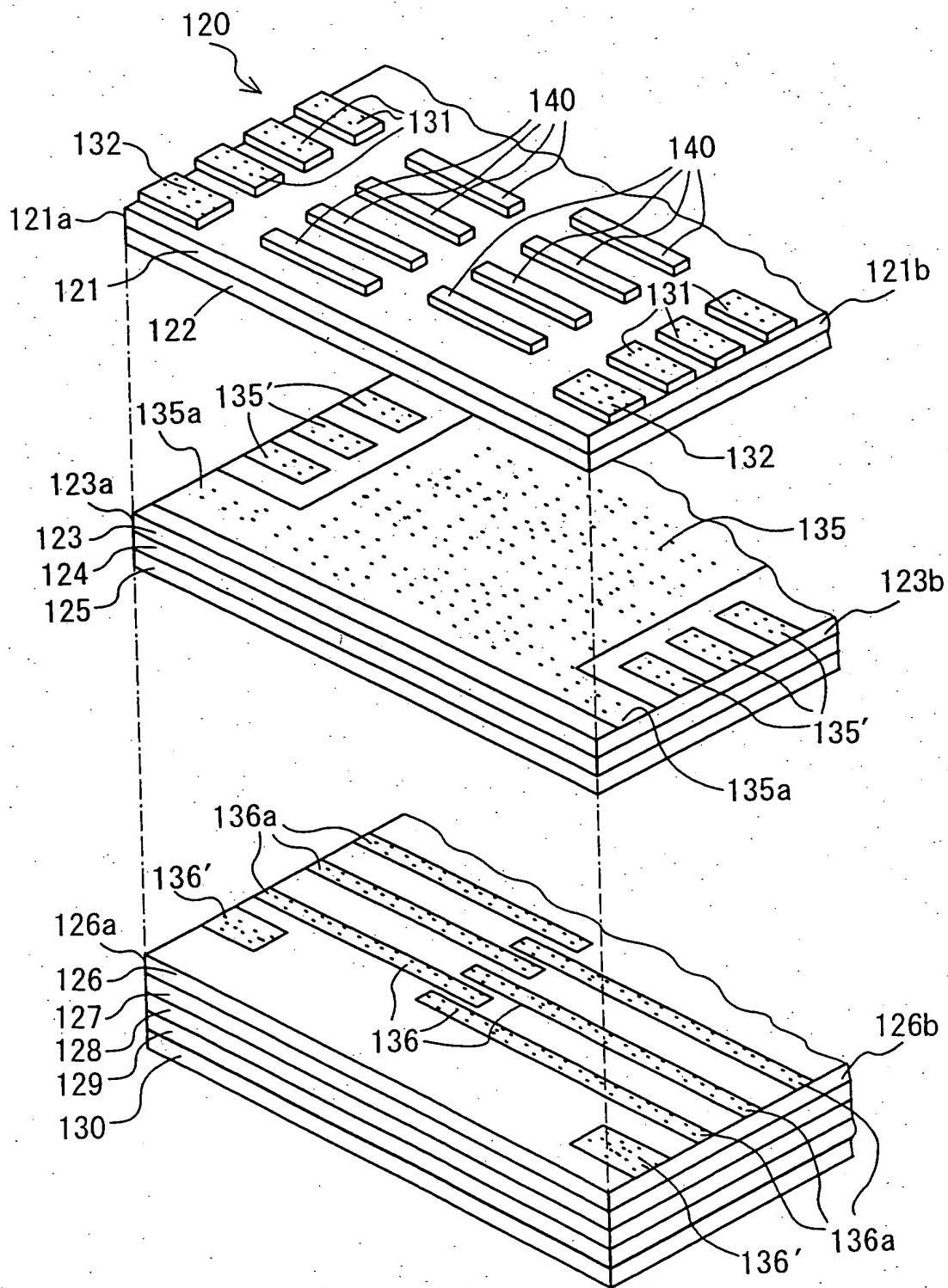


FIG.14

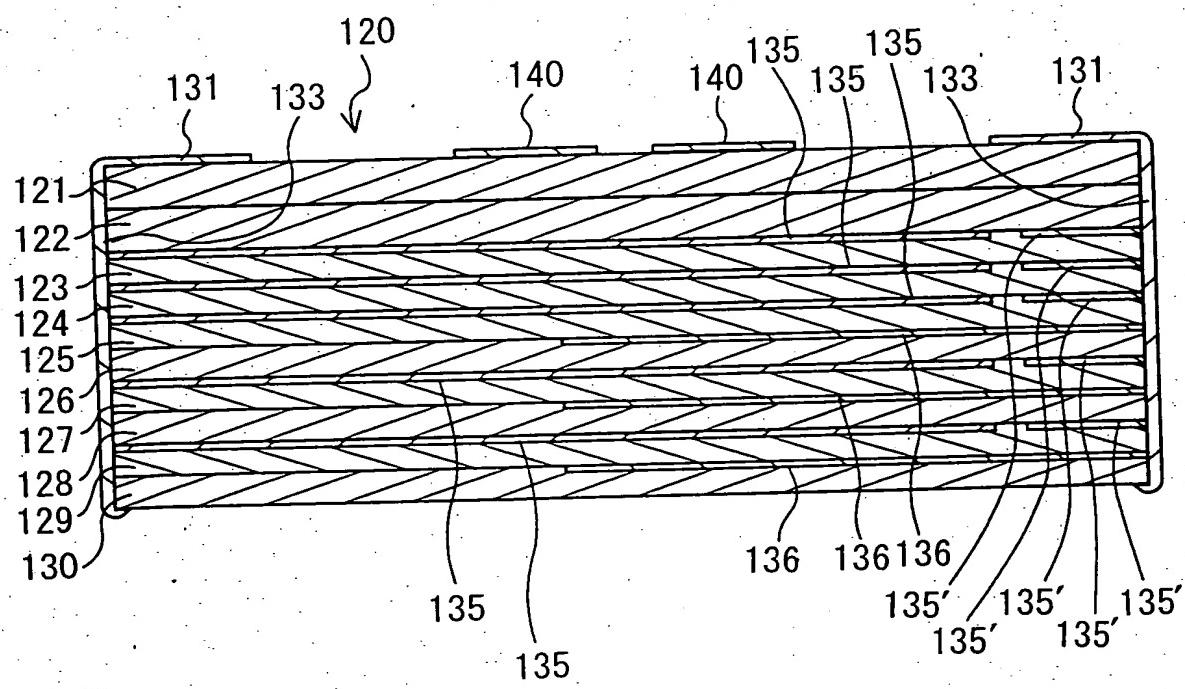


FIG.15

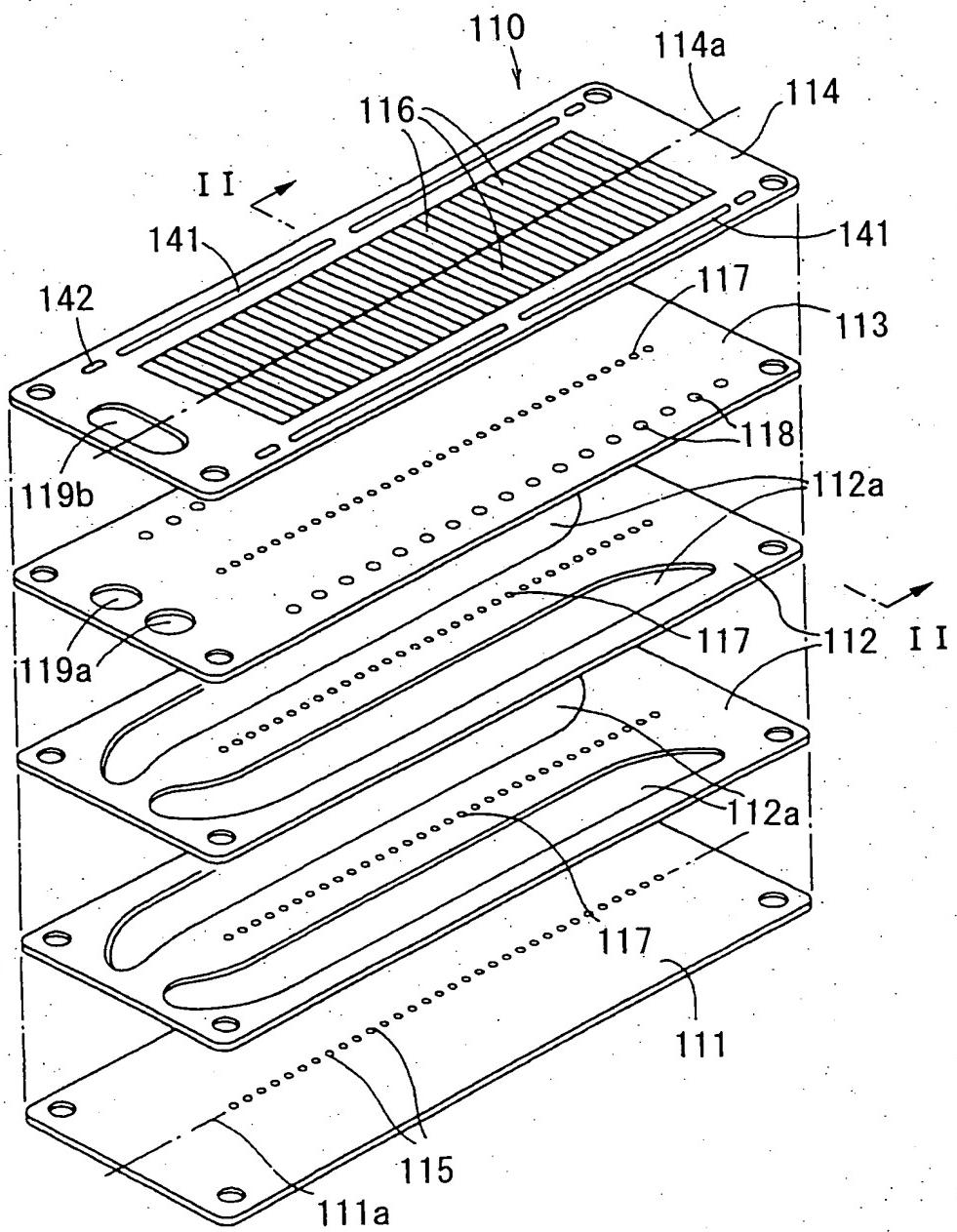


FIG. 16

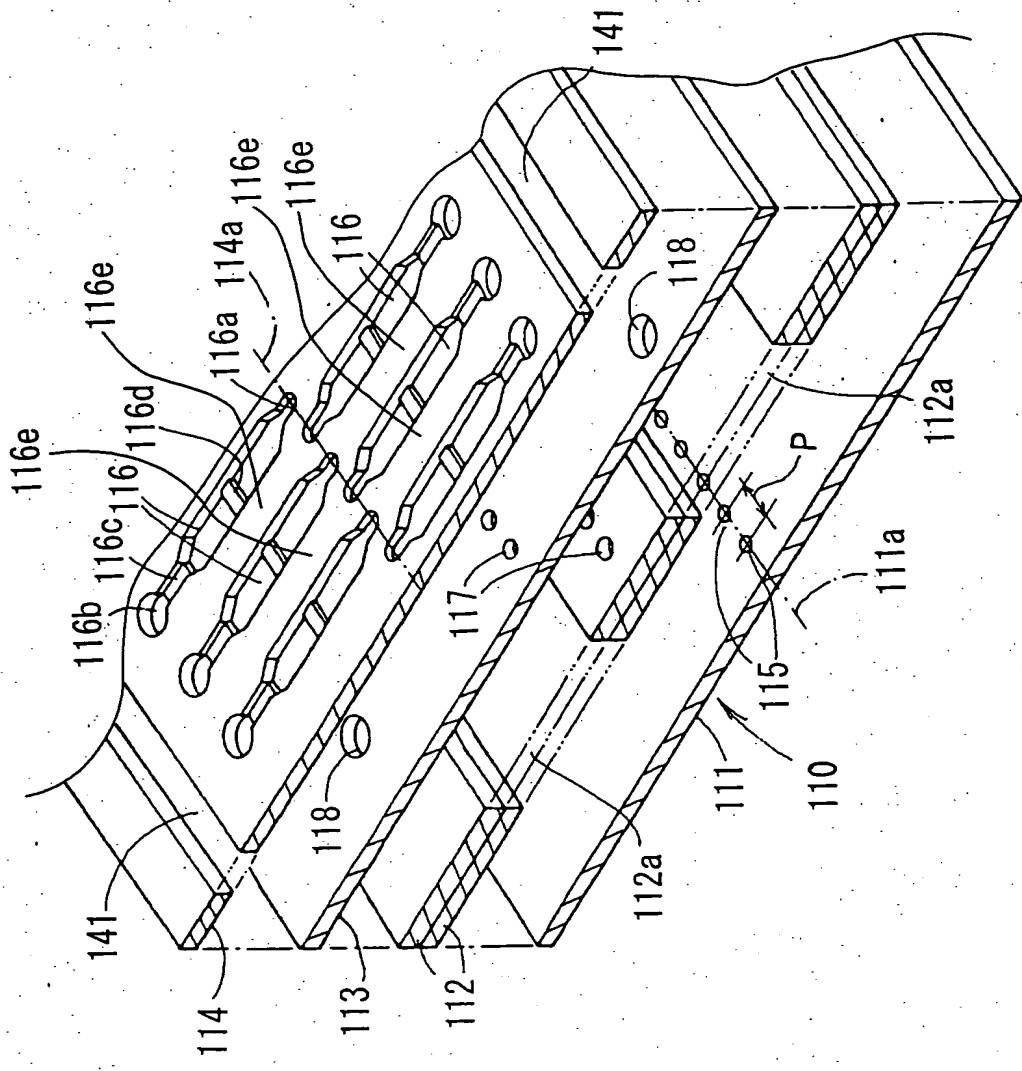


FIG.17

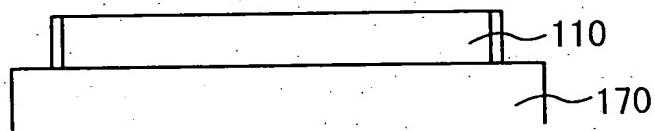


FIG.18

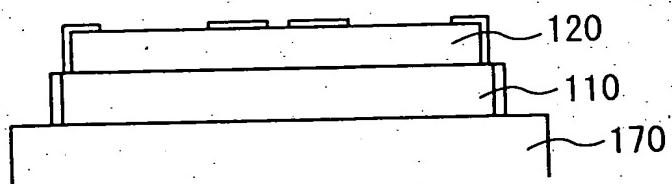


FIG.19

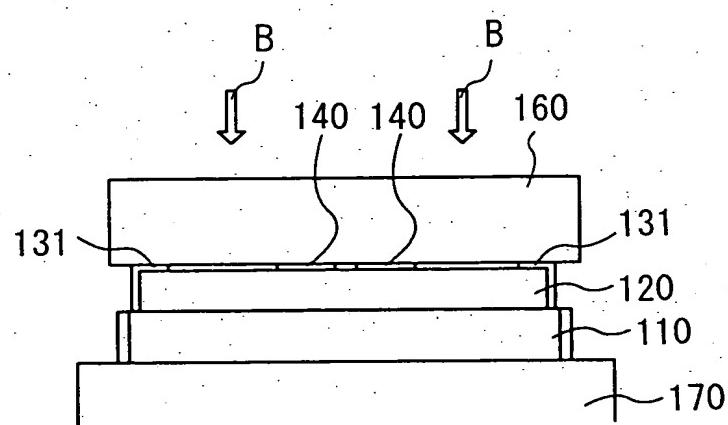


FIG. 20

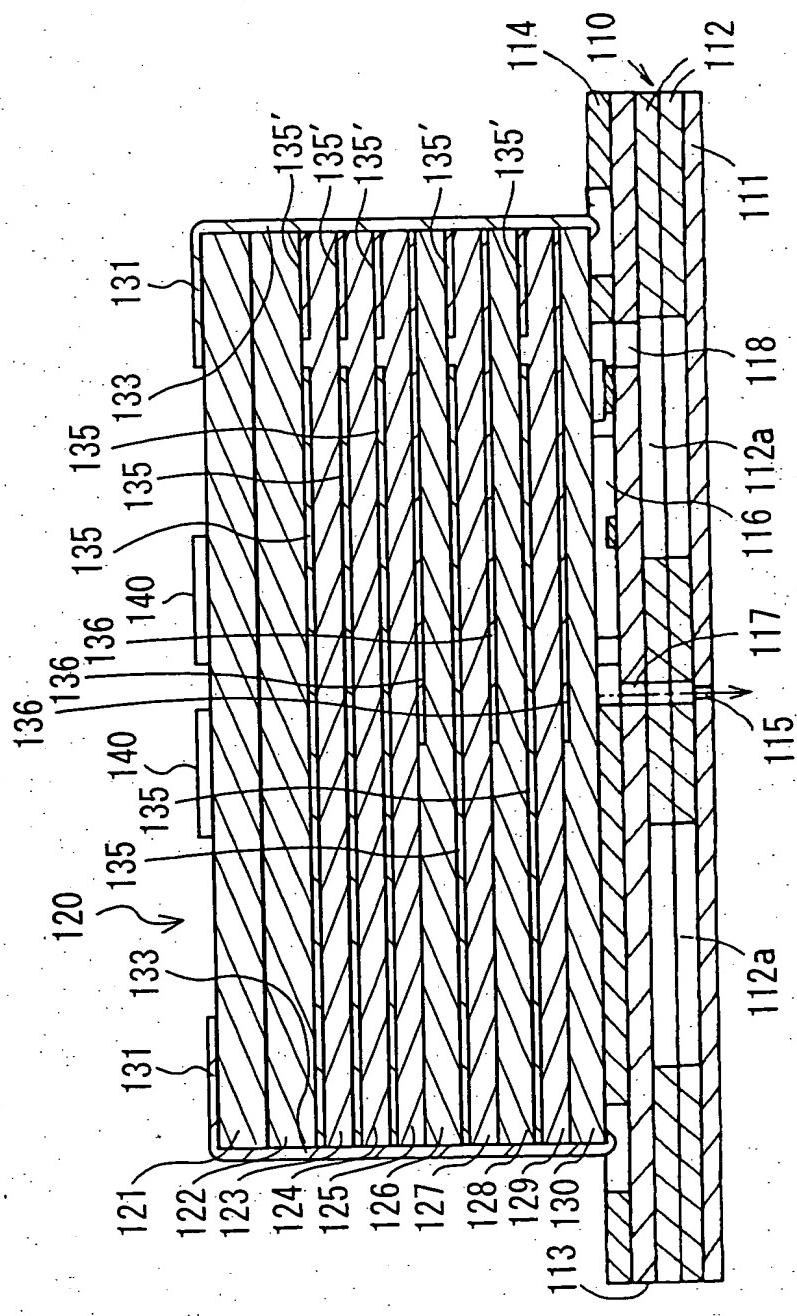


FIG.21

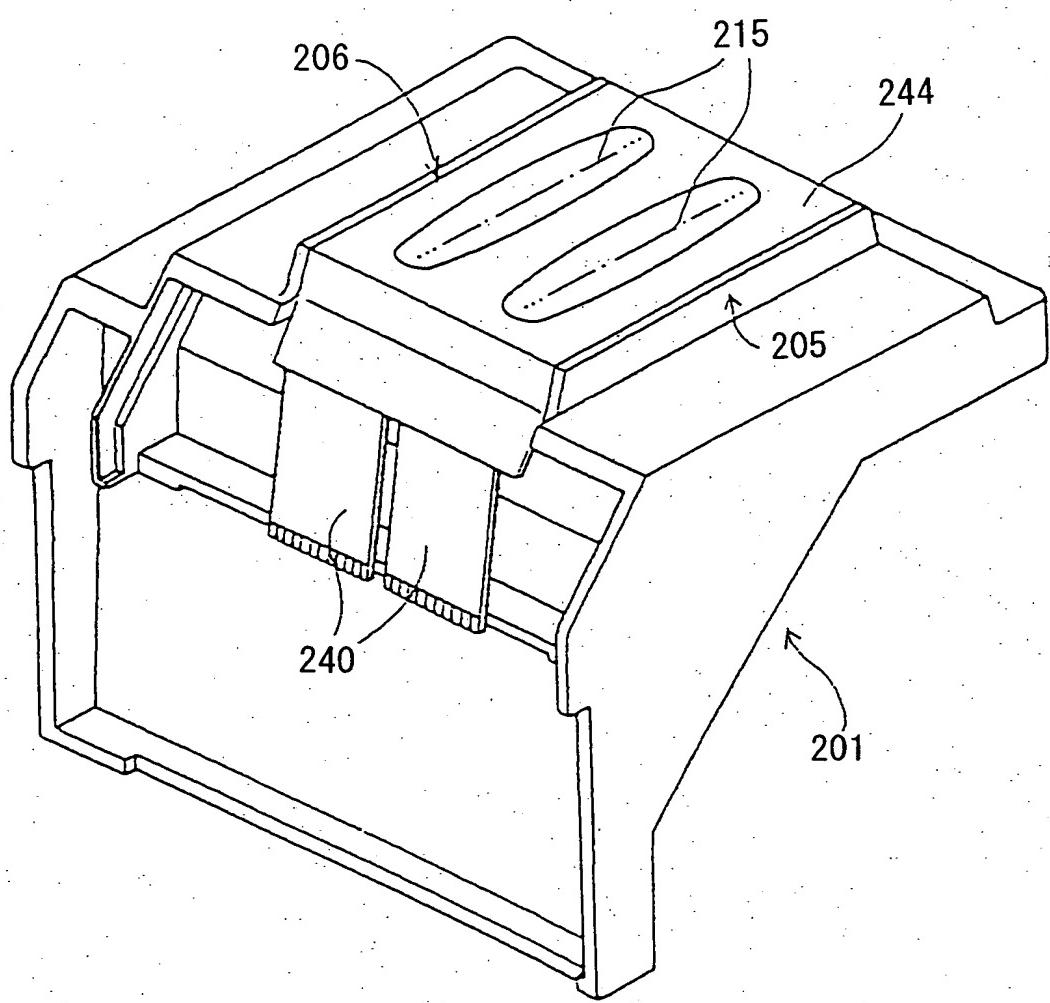


FIG.22

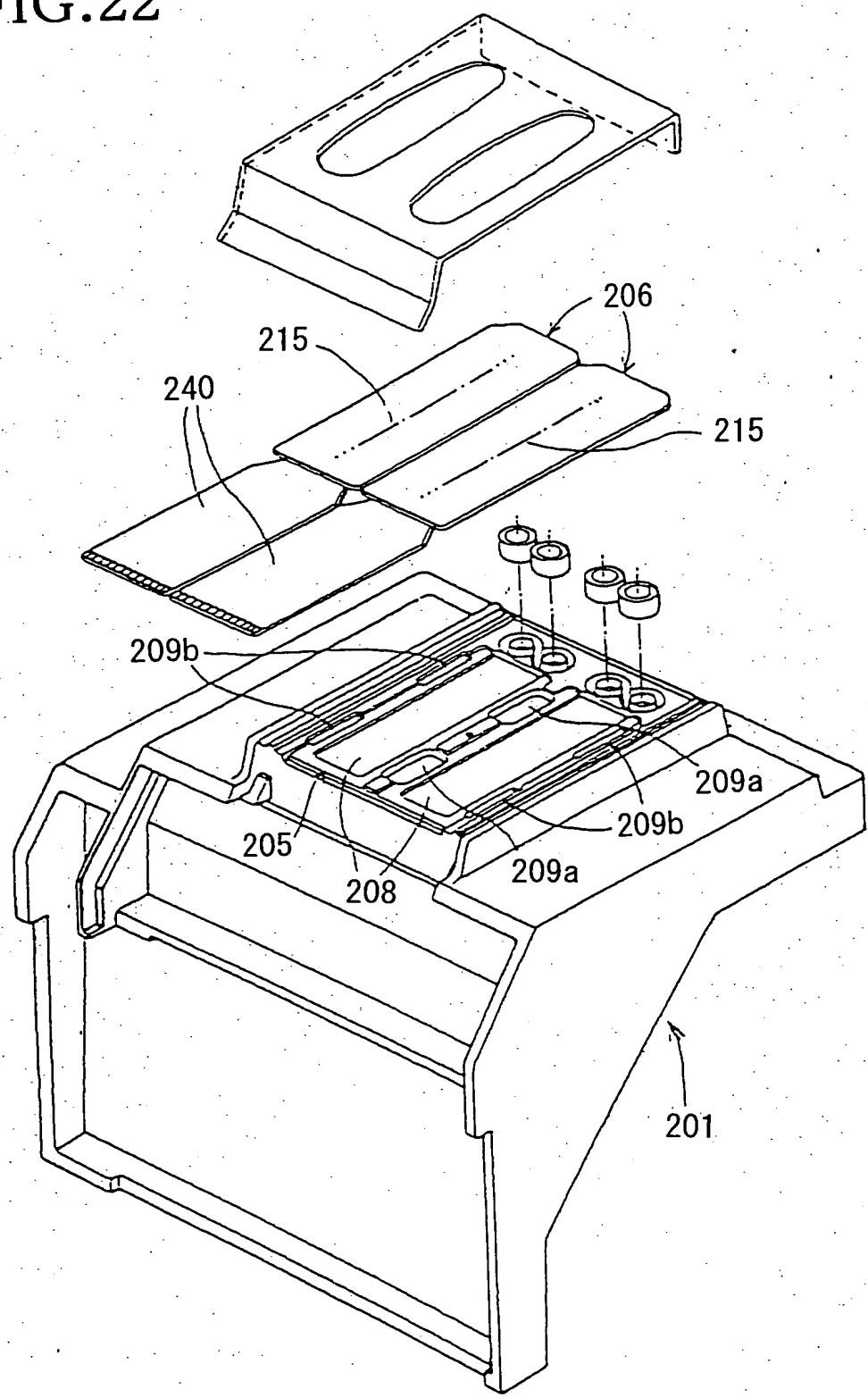


FIG.23

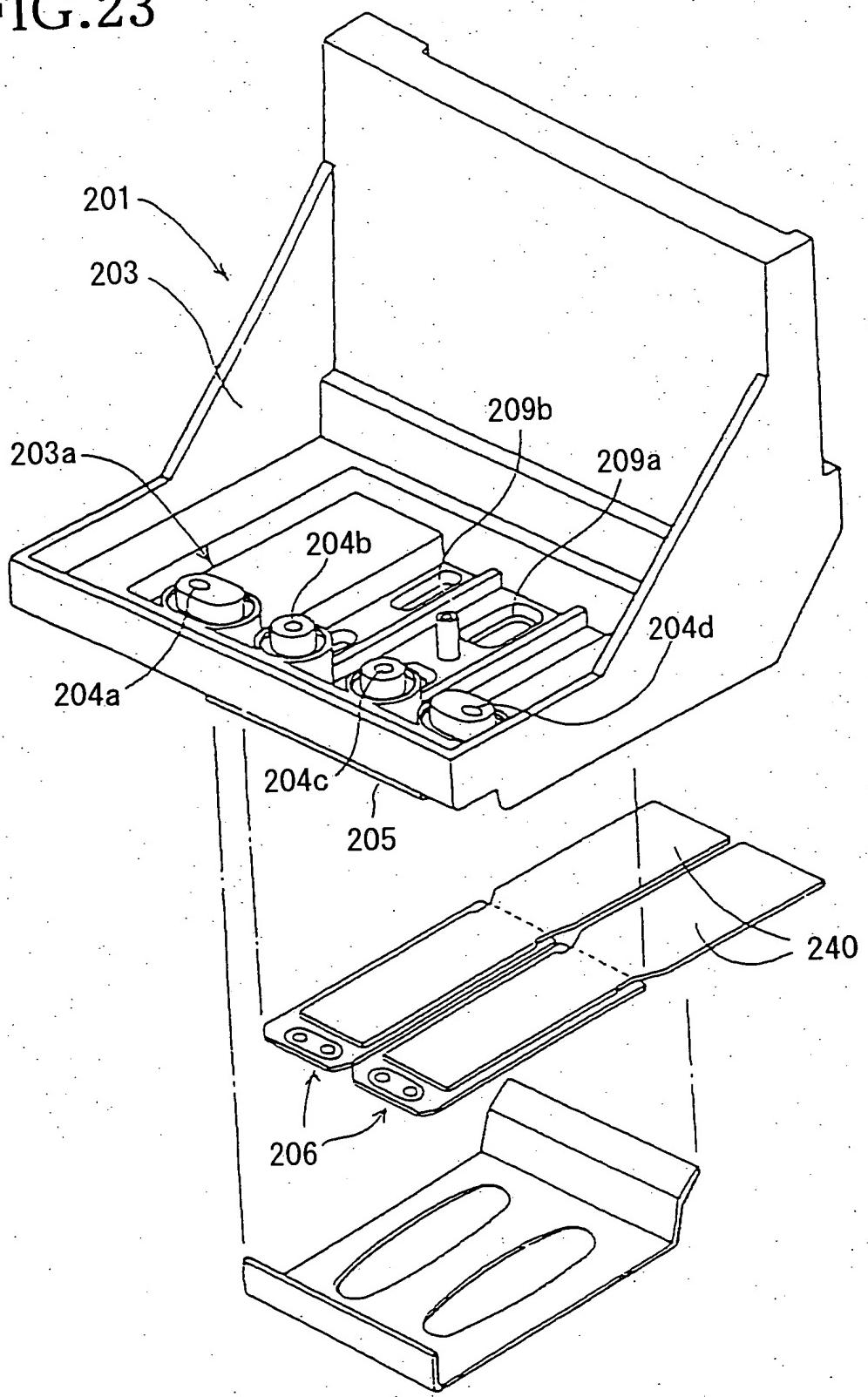


FIG.24

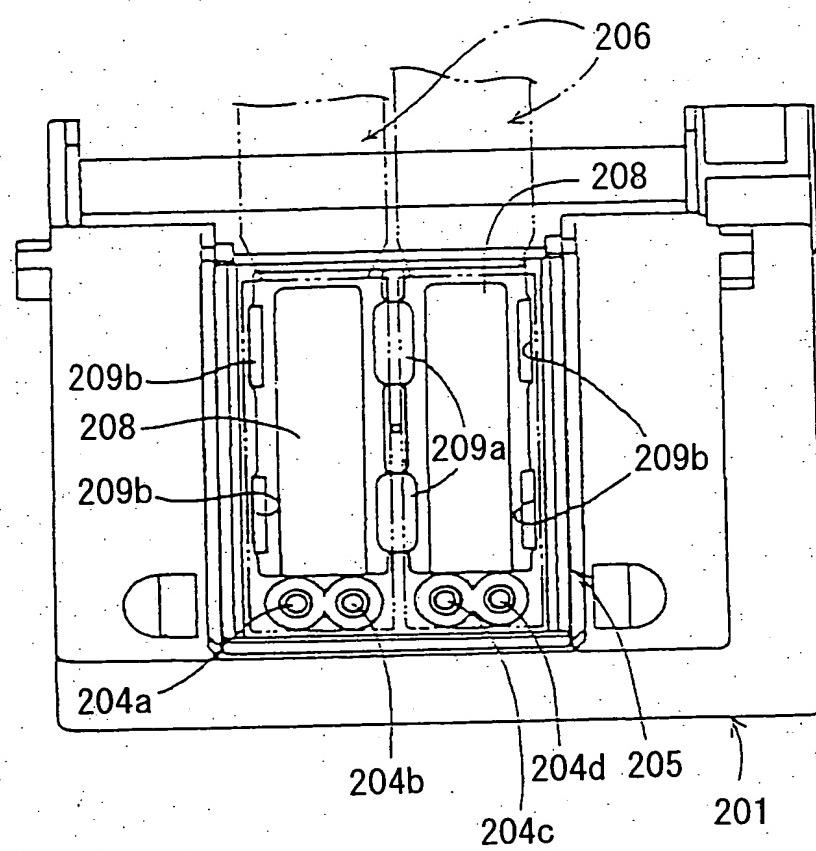


FIG.25

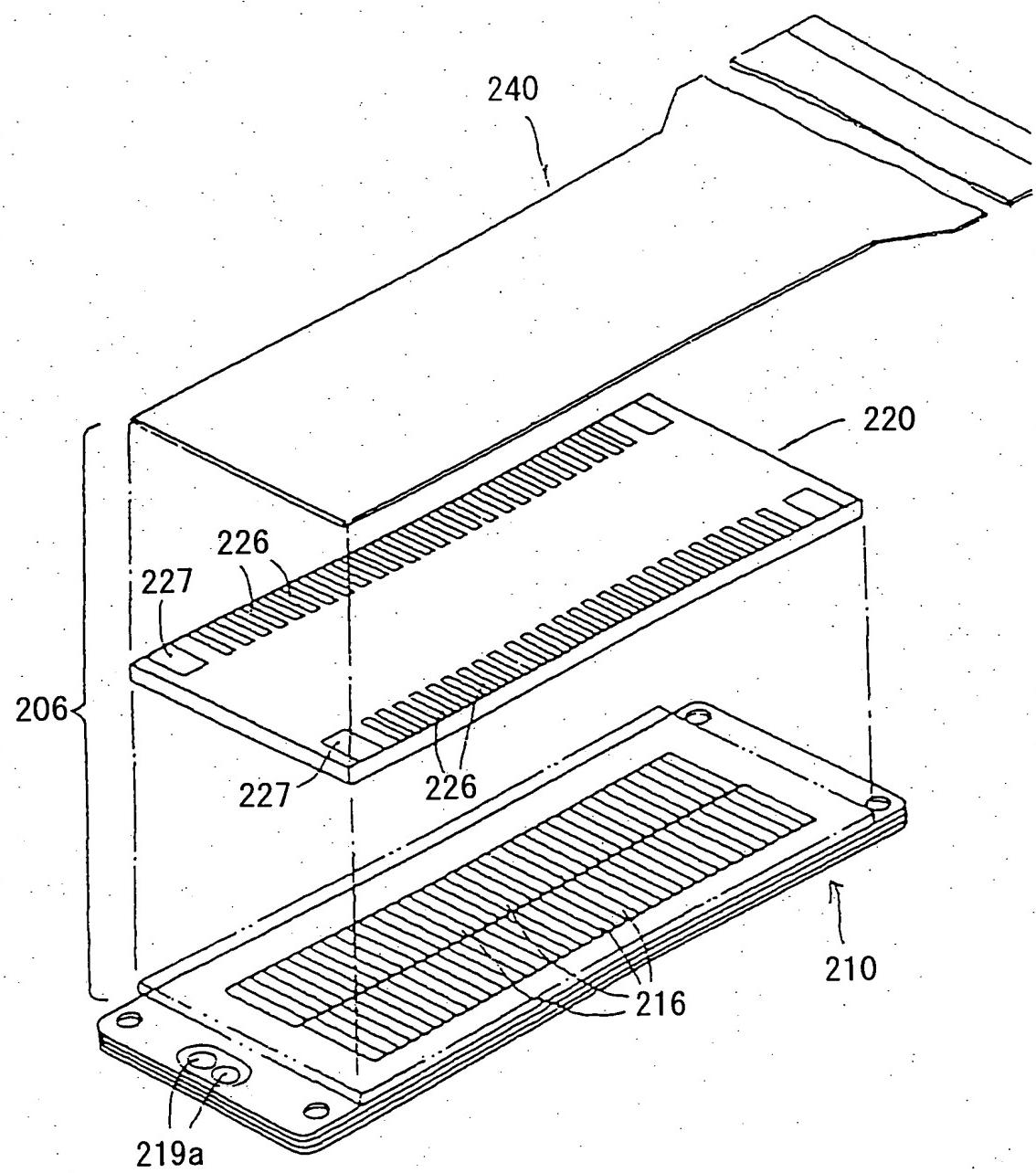


FIG.26

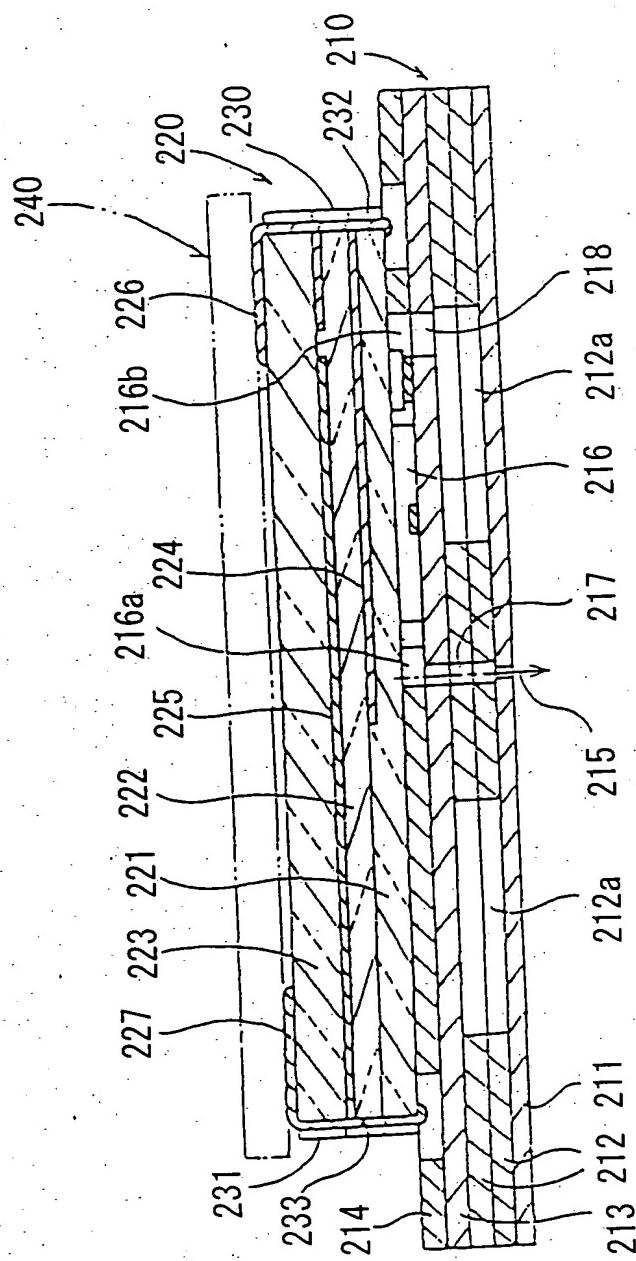


FIG.27

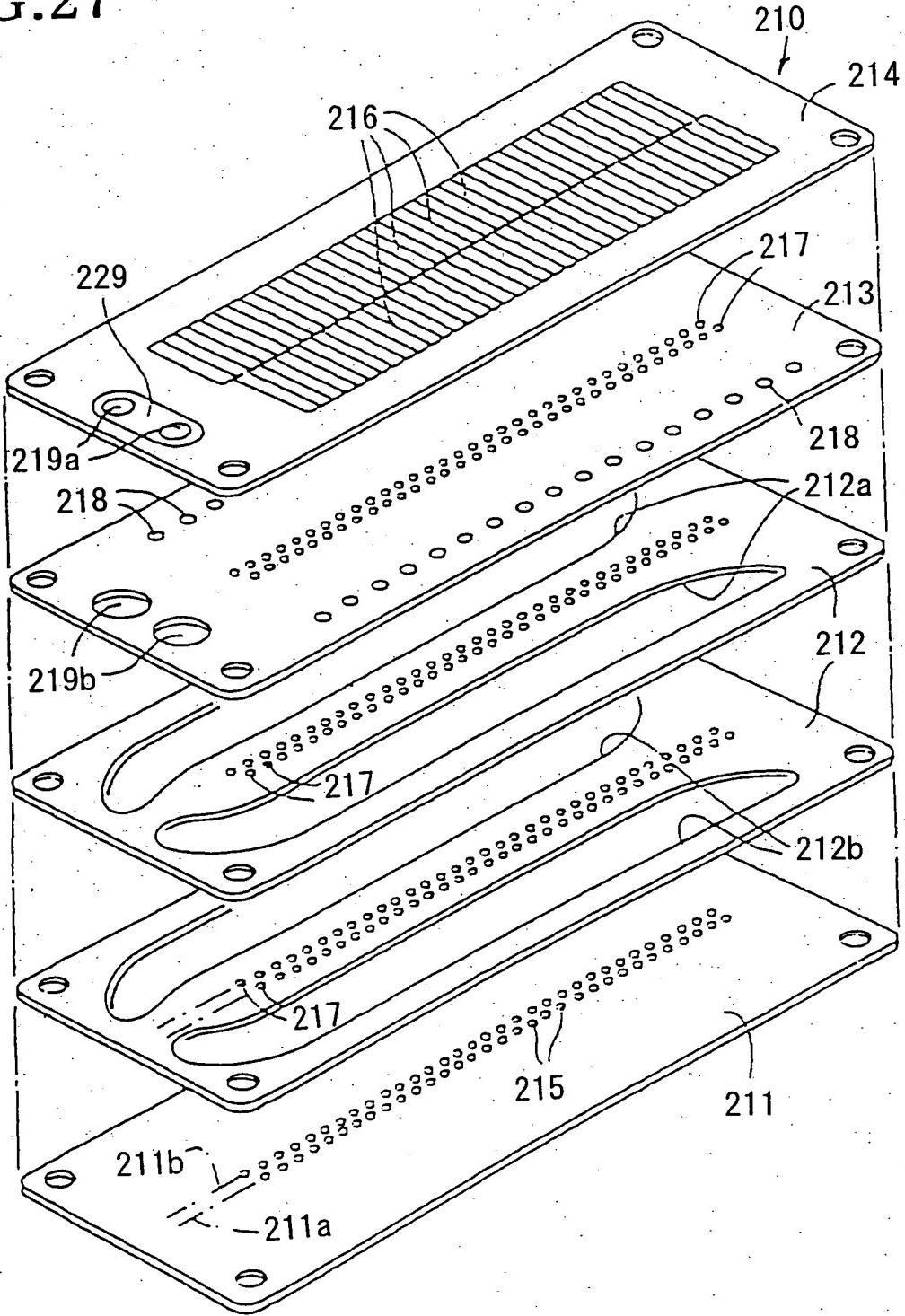


FIG.28

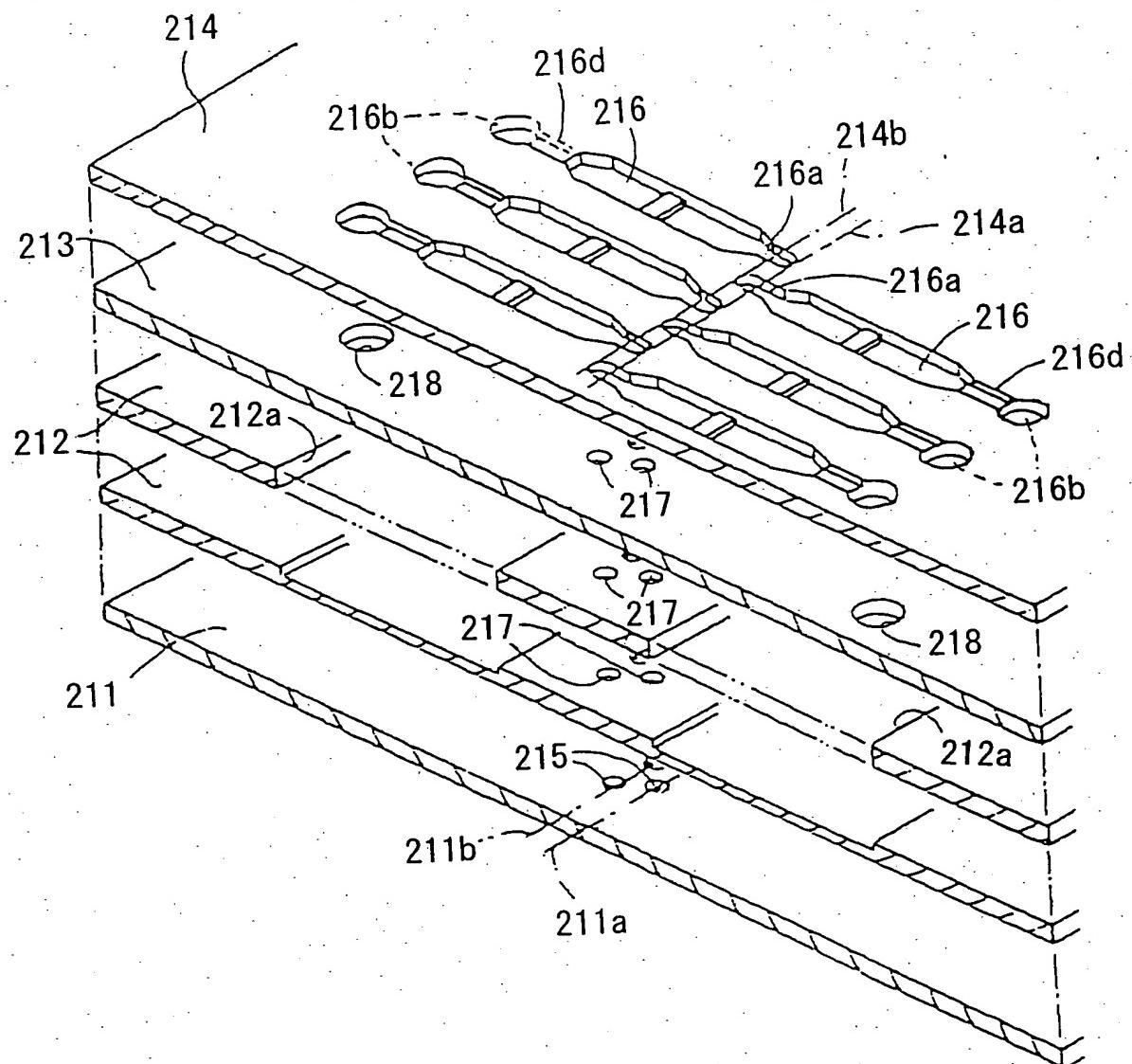


FIG.29

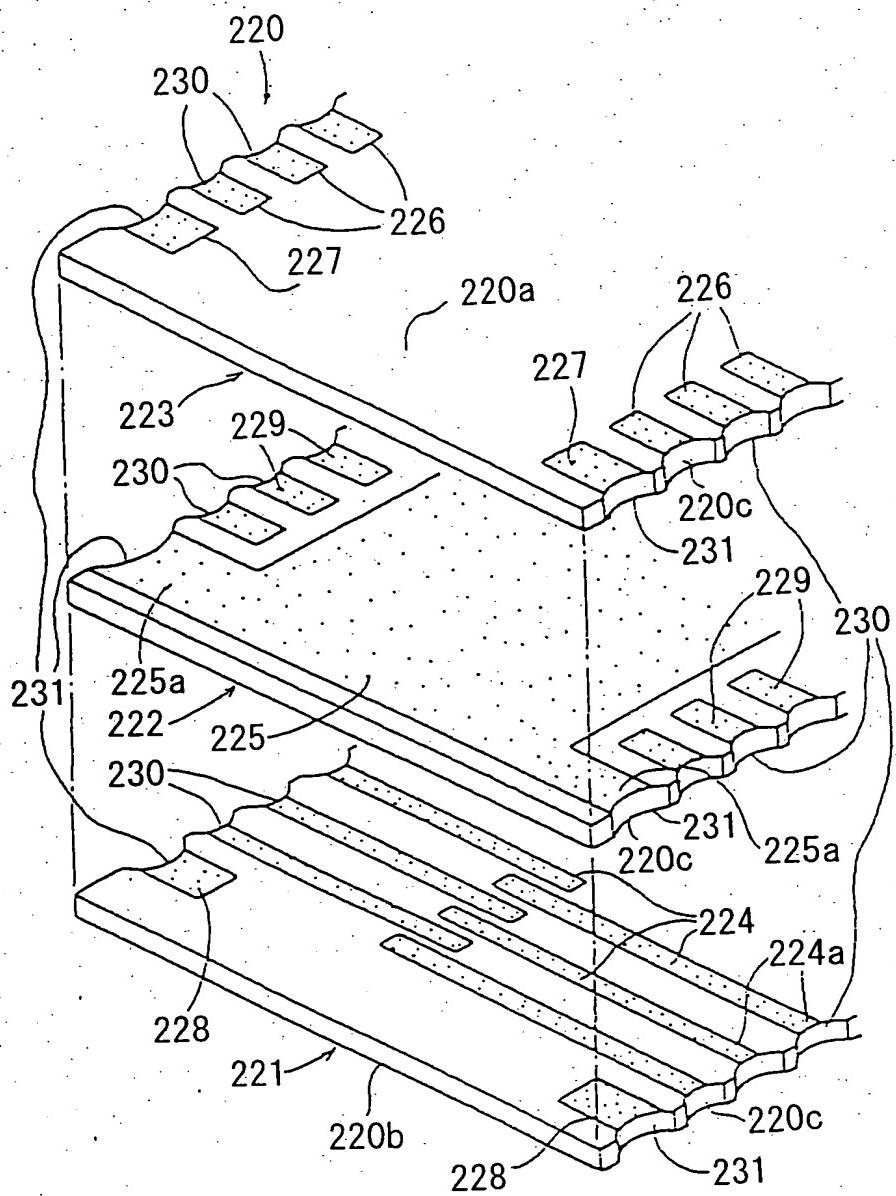


FIG.30A

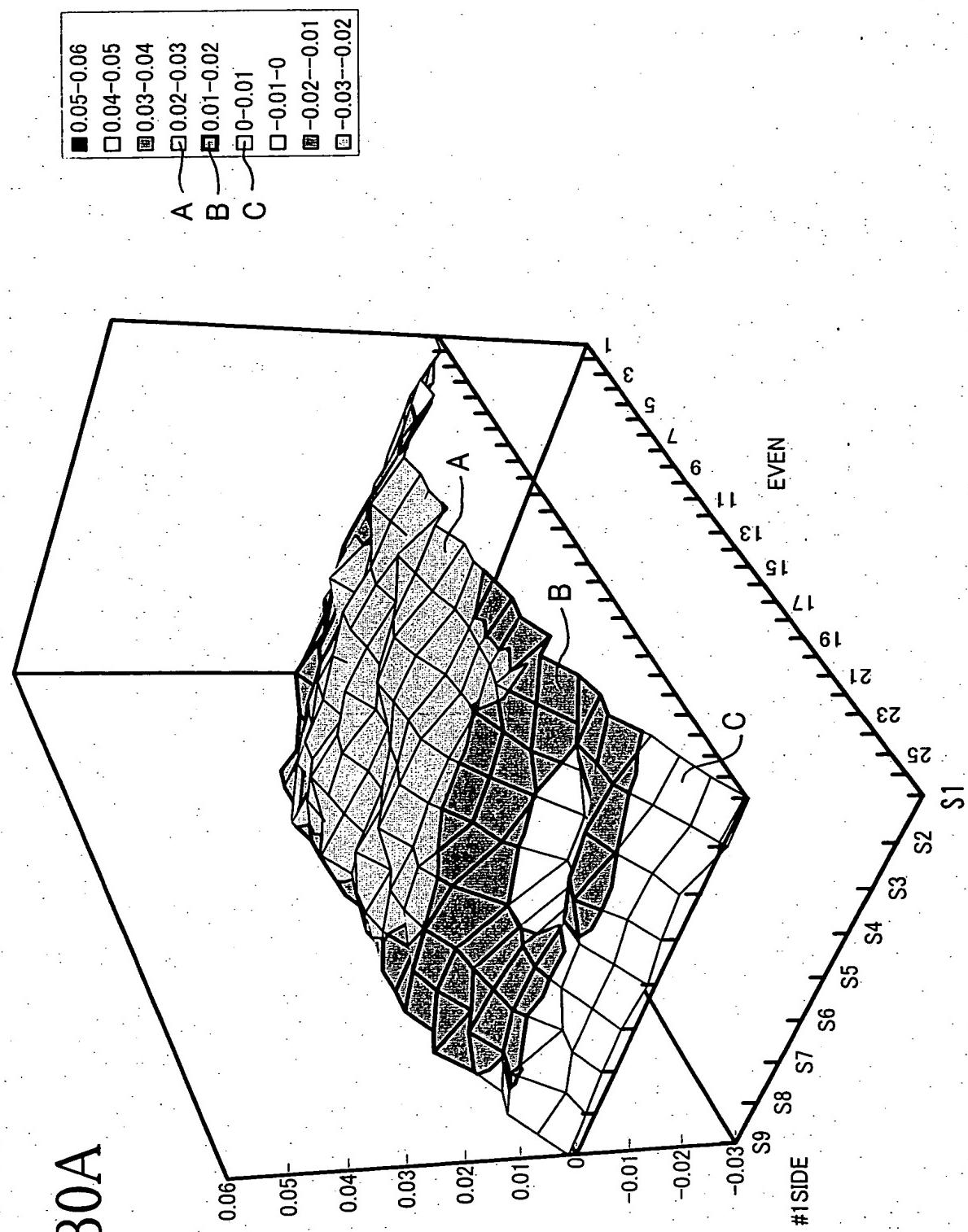


FIG. 30B

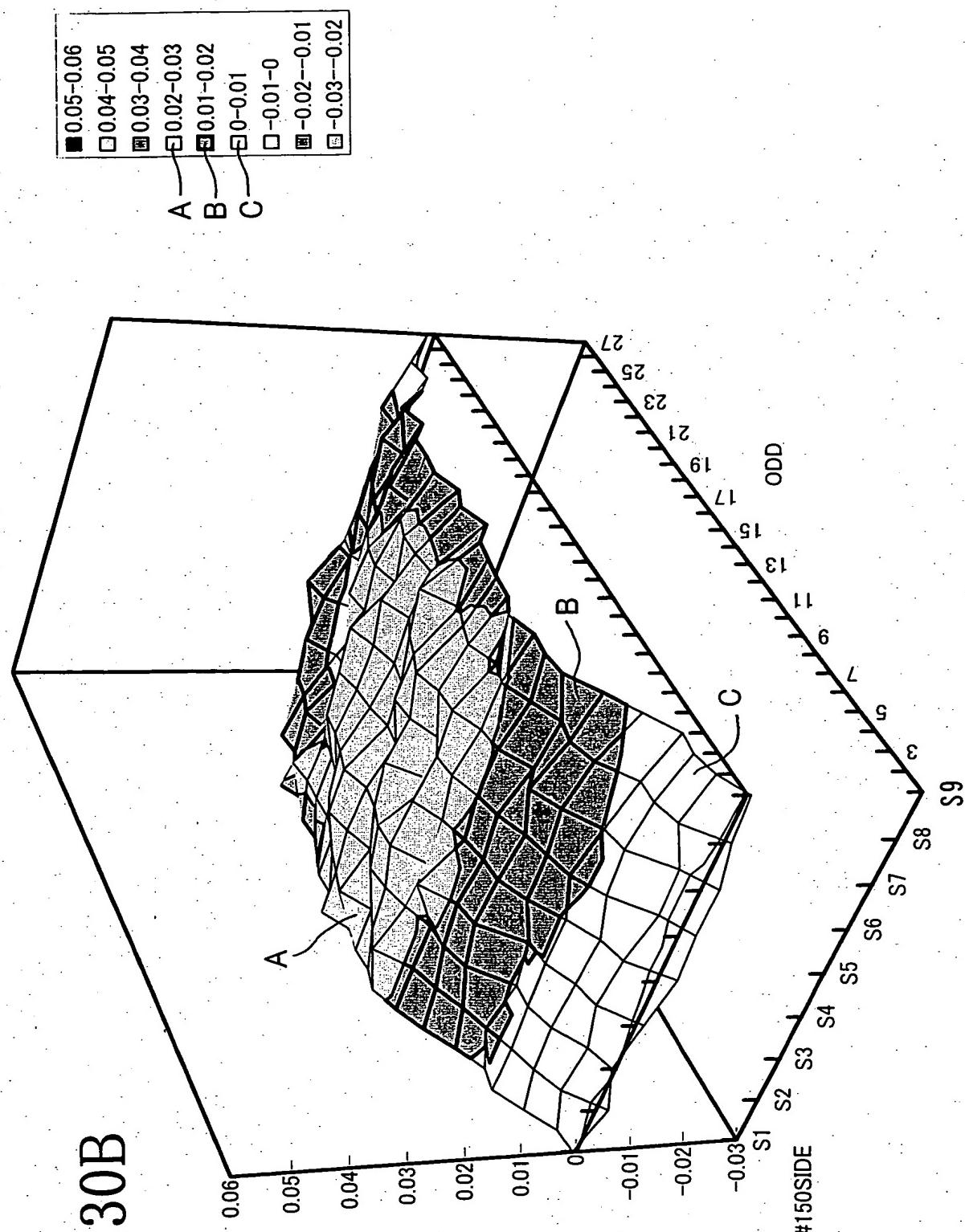


FIG.31A

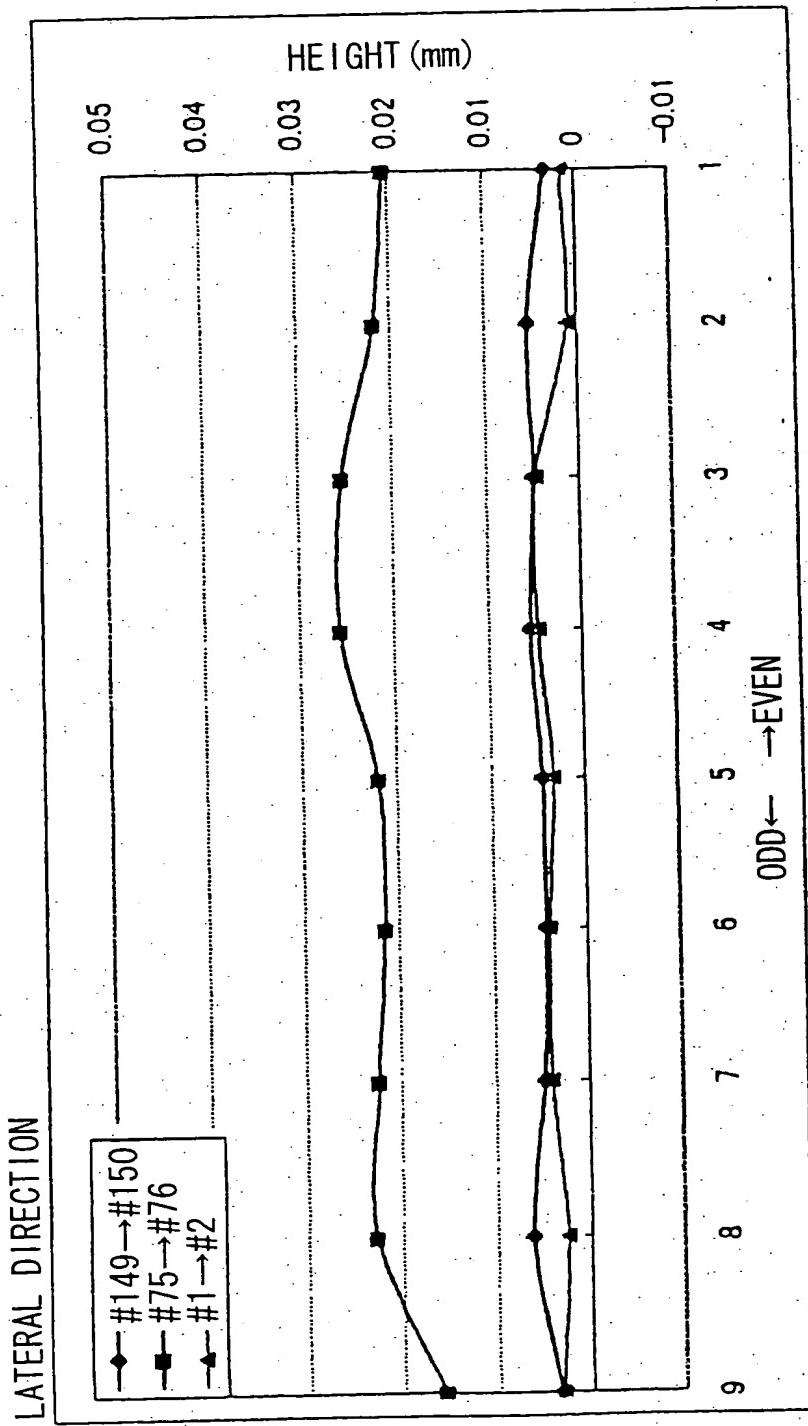


FIG.31B

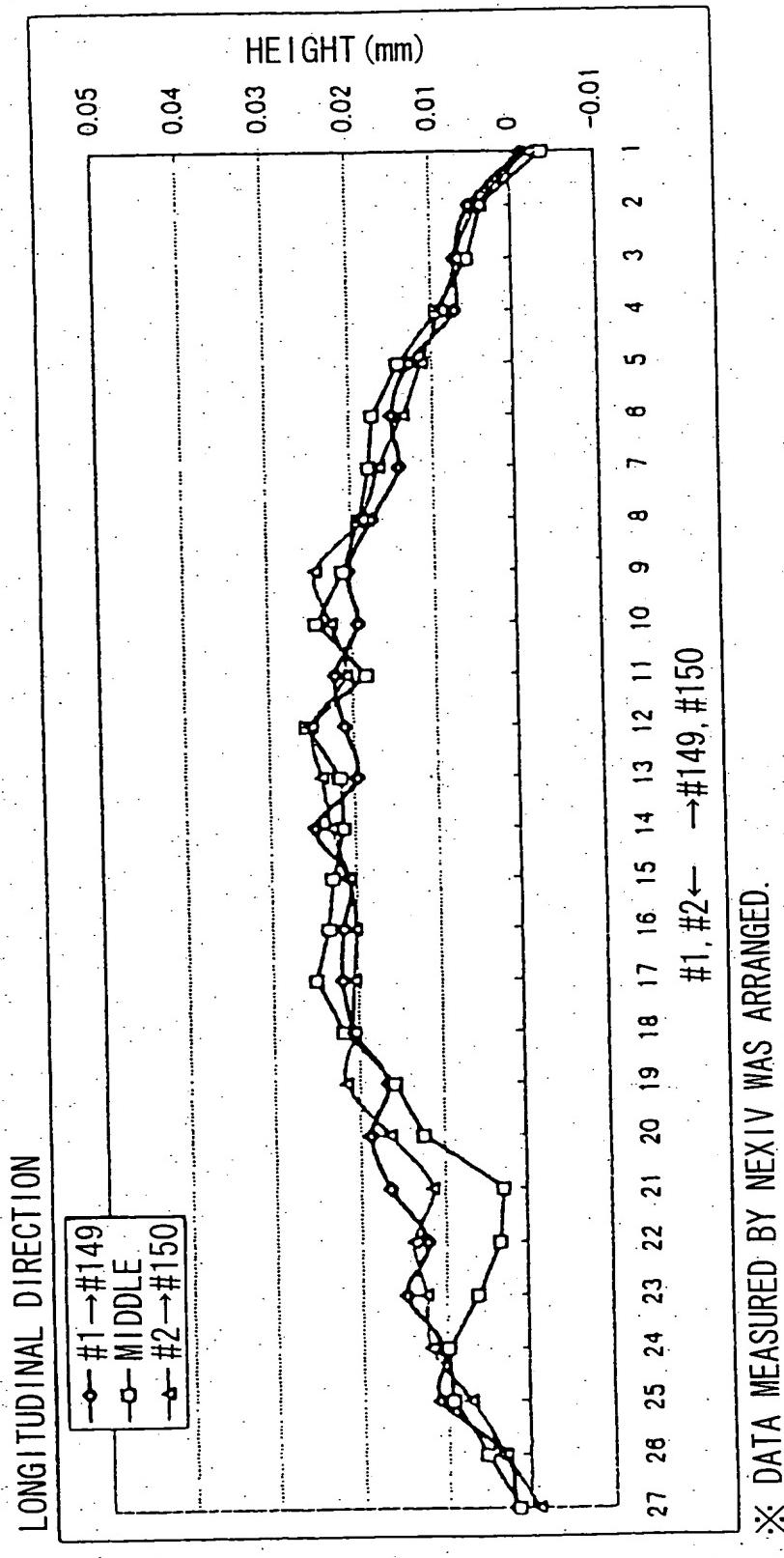
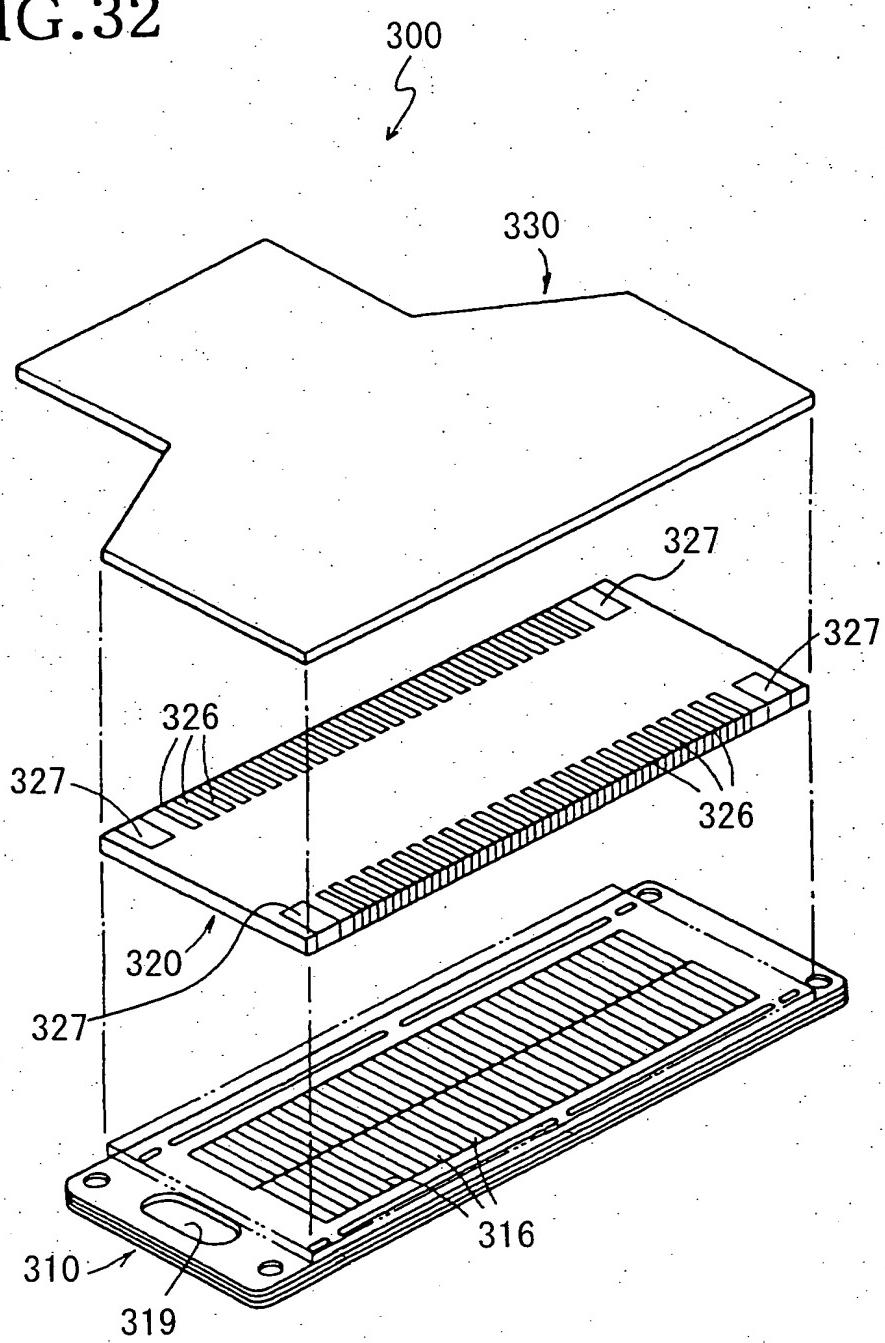
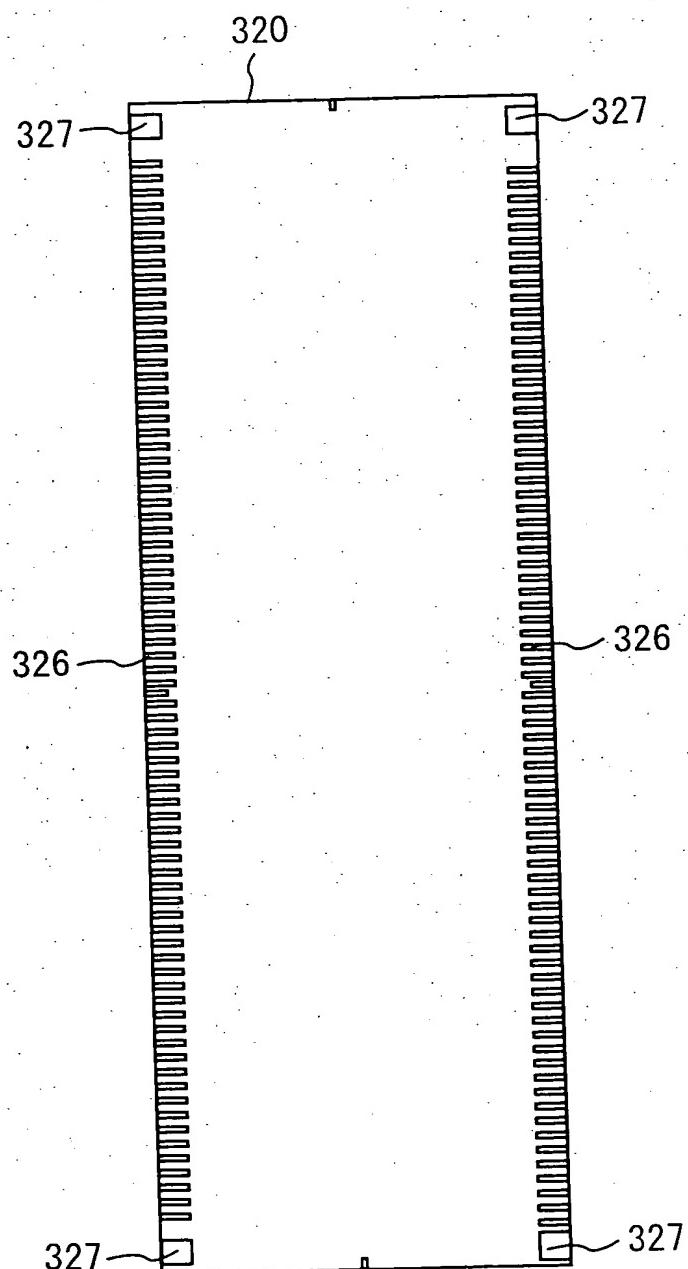


FIG.32



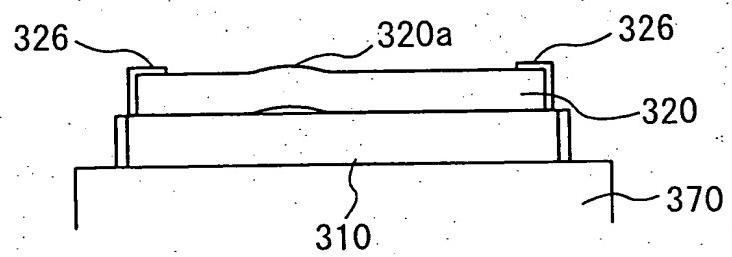
RELATED ART

FIG.33



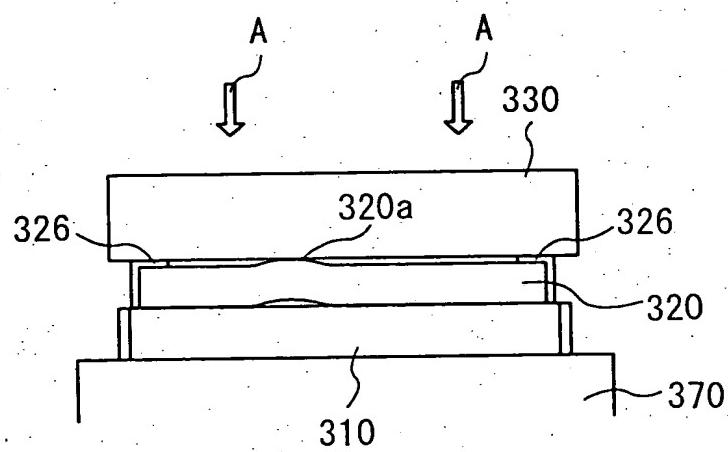
RELATED ART

FIG.34



RELATED ART

FIG.35



RELATED ART